Project/Site: MVP		City/County: Montgomery Sampling Date: 04/11/201					
Applicant/Owner: MVP		State: VA Sampling Point: W-AB7					
Investigator(s): J. Hart, A. L	arson, T. Woods						
Landform (hillslope, terrace, et					Slope (%): 1		
Subregion (LRR or MLRA): L	RR N Lat:	37.231334	l ong80	.198782	Datum: NAD 83		
Soil Map Unit Name: 29 - Ud							
Are climatic / hydrologic condit							
· · · · ·		•			resent? Yes No		
Are Vegetation, Soil							
_					important features, etc.		
			.pg po				
Hydrophytic Vegetation Prese		No No	Is the Sampled Area				
Hydric Soil Present? Wetland Hydrology Present?		No	within a Wetland?	Yes	No		
Demonstrat	ode: PEM		Water Type:	DDMMAD			
Wetland functions as a r contributes flows to Roa	roadside ditch but a	•			ns from upslope. Likely		
HYDROLOGY							
Wetland Hydrology Indicate	ors:			Secondary Indicat	ors (minimum of two required)		
Primary Indicators (minimum		k all that apply)		Surface Soil (-		
✓ Surface Water (A1)	•	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Ode		Drainage Patt			
Saturation (A3)			es on Living Roots (C3)	Moss Trim Lir			
Water Marks (B1)		Presence of Reduced	-		Vater Table (C2)		
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Burro			
Drift Deposits (B3)		Thin Muck Surface (C	(7)	Saturation Vis	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Other (Explain in Ren	narks)	Stunted or Str	ressed Plants (D1)		
Iron Deposits (B5)				Geomorphic F	Position (D2)		
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aquit	ard (D3)		
Water-Stained Leaves (E	39)				ohic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:							
Surface Water Present?	Yes No		<u>+1</u>				
Water Table Present?	Yes No	Depth (inches):	0				
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	0 Wetland H	lydrology Present	? Yes <u>/</u> No		
Describe Recorded Data (stre	eam gauge, monitoring v	well, aerial photos, pre	vious inspections), if ava	ilable:			
_							
Remarks:							
1							

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: W-AB7

201			Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species	
1	. 			That Are OBL, FACW, or FAC: 2 (A	A)
2				Total Novebox of Developed	
3				Total Number of Dominant Species Across All Strata: 2 (E	B)
				opedies Adross Air Strata.	٥,
4		-		Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:100 (A	A/B)
6				Prevalence Index worksheet:	
7					
		Total Cov	/er	Total % Cover of: Multiply by:	
50% of total cover:0	20% of to	otal cover	:0	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
1				FAC species x 3 =	
				FACU species x 4 =	
2				UPL species x 5 =	
3					(D)
4	. <u></u>			Column Totals: (A)	(B)
5			<u> </u>	Prevalence Index = B/A =	
6					
7				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9	^	T		3 - Prevalence Index is ≤3.0 ¹	
500/ 244242 22007		Total Cov		4 - Morphological Adaptations ¹ (Provide suppor	rting
50% of total cover: 0	20% of to	otal cover	:	data in Remarks or on a separate sheet)	
Heib Stratum (Flot Size)	05			Problematic Hydrophytic Vegetation ¹ (Explain)	
1. Typha angustifolia	35		<u>OBL</u>		
2. Equisetum arvense	20		F <u>AC</u>	¹ Indicators of hydric soil and wetland hydrology mus	_4
3. Cyperus esculentus	15		FACW_	be present, unless disturbed or problematic.	Si
4. Eleocharis acicularis	10		OBL	Definitions of Four Vegetation Strata:	
5				benintions of Four Vegetation offata.	
6				Tree - Woody plants, excluding vines, 3 in. (7.6 cm	n) or
				more in diameter at breast height (DBH), regardless	s of
7				height.	
8				Sapling/Shrub - Woody plants, excluding vines, le	ess
9				than 3 in. DBH and greater than or equal to 3.28 ft ((1
10				m) tall.	
11	<u> </u>			Herb – All herbaceous (non-woody) plants, regardle	6 88
	80 =	Total Cov	/er	of size, and woody plants less than 3.28 ft tall.	000
50% of total cover: 40		otal cover			
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft	in
				height.	
1					
2					
3					
4	· 			Hydrophytic	
5	. <u></u>			Vegetation	
		Total Cov	/er	Present? Yes No	
50% of total cover:0	20% of to	otal cover	: 0		
Remarks: (Include photo numbers here or on a separate s	sheet.)			I.	
Remaining cover in herb stratum is thatch	,				
Tromaning sever in here enature is materi					

Sampling Point: W-AB7

SOIL

	Matrix		Redo	x Features					
Depth (inches)	Color (moist)	%	Color (moist)	<u>%</u> -	Type ¹ Loc	Textu	ıre	Remarks	
0-2	10YR 2/2	90	10YR 4/1	10	<u>D M</u>	Si	<u> </u>		
2-10	10YR 4/2	65	10YR 6/6	5	С	Si	<u>L</u>		
			10YR 5/1	30	<u> </u>	Si	 L		
							-		
									
									
									
	oncentration, D=Depl	letion, RM=	Reduced Matrix, MS	S=Masked S	and Grains.		on: PL=Pore Lini		3
lydric Soil I				()			Indicators for P		
Histosol			Dark Surface	, ,	(OO) (BU DA	4.47 .4.40\		A10) (MLRA 1	47)
	pipedon (A2)				(S8) (MLRA			Redox (A16)	
Black His	stic (A3) n Sulfide (A4)		Thin Dark Su Loamy Gleye	, , ,		ю)	(MLRA 14	9 7, 148) Dodplain Soils ((F10)
	Layers (A5)		Depleted Ma	•)		Fledifion Fit		(19)
	ick (A10) (LRR N)		Redox Dark					Dark Surface	(TF12)
	Below Dark Surface	e (A11)	Depleted Da	, ,				in in Remarks)	, ,
	ark Surface (A12)		Redox Depre	essions (F8)					
	lucky Mineral (S1) (L	.RR N,	Iron-Mangan		(F12) (LRR N	l,			
	\ 147, 148)		MLRA 13	•			3		
	sleyed Matrix (S4)		Umbric Surfa				³ Indicators of h		
	edox (S5)		Piedmont Flo					logy must be p	
	Matrix (S6)		Red Parent I	viateriai (F21) (MLRA 127	, 147)	uniess disturb	ed or problema	ATIC.
Doctrictive I	avar (if abaarvad).								
	_ayer (if observed):								
Туре:						11	0 - '' Doo 10	v /	NI -
Type: Depth (inc	Layer (if observed):		<u> </u>			Hydri	Soil Present?	Yes 🗸	No
Type: Depth (inc						Hydri	Soil Present?	Yes	No
Type: Depth (inc			_			Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes <u> </u>	No
Type: Depth (inc						Hydri	c Soil Present?	Yes 🗸	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes V	No
Type: Depth (inc						Hydri	c Soil Present?	Yes V	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	e Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Туре:						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes 🗸	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No
Type: Depth (inc						Hydri	c Soil Present?	Yes	No



Photograph Direction NE

Comments:		

Project/Site: MVP		City/C	ounty: Montgomery		Sampling Date: 04/11/2016
Applicant/Owner: MVP		,			Sampling Point: W-AB7-UP
Investigator(s): J. Hart, A. La	arsen, T. Woods	Section	on, Township, Range: N/A		_ ,
Landform (hillslope, terrace, etc					Slone (%): 2
Subregion (LRR or MLRA): <u>LF</u>					
Soil Map Unit Name: 29 - Udo					
Are climatic / hydrologic condition		·			
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal of	Circumstances" p	resent? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed, ex	plain any answe	rs in Remarks.)
SUMMARY OF FINDING	3S – Attach site	e map showing sam	pling point location	ns, transects	, important features, etc.
Hydrophytic Vegetation Prese	ent? Voc	No			
Hydric Soil Present?	Yes	No V	Is the Sampled Area		1
Wetland Hydrology Present?	Yes	No	within a Wetland?	Yes	No
Devent	ode: UPLAND		Water Type:		
Upland plot occurs on te			* *	lot with W-AF	18
Opiana piot occurs on te	Tace above we	lianu aujaceni io raiii	uau iiacks. Faileu p	NOT WITH WY-AL	00.
HYDROLOGY					
Wetland Hydrology Indicato			-		tors (minimum of two required)
Primary Indicators (minimum o	of one is required; c			Surface Soil	, ,
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Par	
Saturation (A3)		Oxidized Rhizosphere Presence of Reduced	-	Moss Trim Li	
Water Marks (B1)		Recent Iron Reductio		Dry-Season Crayfish Buri	Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (C		-	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren			tressed Plants (D1)
Iron Deposits (B5)		Out of (Explain in 110)	<u> </u>	Geomorphic	
Inundation Visible on Aeri	ial Imagery (B7)		-	Shallow Aqui	
Water-Stained Leaves (B			-		phic Relief (D4)
Aquatic Fauna (B13)	,		- -	FAC-Neutral	• • • • • • • • • • • • • • • • • • • •
Field Observations:					
Surface Water Present?	Yes No	✓ Depth (inches):			
Water Table Present?	Yes No _	Depth (inches):			
Saturation Present?		Depth (inches):		drology Presen	t? Yes No
(includes capillary fringe) Describe Recorded Data (stre	om govigo monitori	na wall parial shotos are	vieve inercetions) if eveil	abla	
Describe Recorded Data (sire	am gauge, moniton	ng well, aerial priotos, pre	vious irispections), ii avaii	able:	
Remarks:					
No hydrology					
,					

Sampling	Point:	W-AB7-UP
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Troo Strotum (Blot size: 30'	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tiee Stratum (Flot size)		Species?	Status	Number of Dominant Species
1. Platanus occidentalis	15		FACW_	That Are OBL, FACW, or FAC:1 (A)
2. Juniperus communis	15		FACU_	Total Number of Dominant
3. Acer saccharum	15		FACU_	Species Across All Strata: 7 (B)
4				Barrand of Barrian of Oracina
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 14.3 (A/B)
6				That / 110 OBE, 1 / 10 W, 01 1 / 10.
7.				Prevalence Index worksheet:
	45	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 22.5				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Juniperus communis	20	/	FACU	FAC species x 3 =
2. Platanus occidentalis	15	~	UPL	FACU species x 4 =
3. Ostrya virginiana				UPL species x 5 =
	5		FACU_	Column Totals: (A) (B)
4. Ailanthus altissima			FACU_	Column Totals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	45	= Total Cov	er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: <u>22.5</u>	20% of	total cover:	9	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Daucus carota	5	/	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Allium vineale	5		FACU	
				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	10	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 5		total cover:		
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in
1				height.
2				
3				
4				Hydrophytic
5				Vegetation
_		= Total Cov	_	Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
Entire cover in herb stratum is duff (pine needles	s)			

	Matrix Color (moist)	%	Redox Featu	res Type ¹	Loc ²	Texture		Dame	
nches)			Color (moist) %	<u>rype</u>	LOC		_	Remark	
0-20	2.5Y 2.5/1	100				SaL		Fill ma	iteriai
			 - 						
_									
							_		
		etion, RM=	Reduced Matrix, MS=Mask	ed Sand Grai	ns.		PL=Pore Lini		
	ndicators:					Ind			Hydric Soils
Histosol (Dark Surface (S7)			—	2 cm Muck (
	ipedon (A2)		Polyvalue Below Sur			148)	Coast Prairie		16)
Black His	stic (A3) n Sulfide (A4)		Thin Dark Surface (S Loamy Gleyed Matrix		17, 148)		(MLRA 14 Piedmont Flo		ilo (E10)
	Layers (A5)		Depleted Matrix (F3)			_	(MLRA 13		ons (F 19)
	ck (A10) (LRR N)		Redox Dark Surface				Very Shallow		ace (TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surfa				Other (Expla		, ,
Thick Da	rk Surface (A12)		Redox Depressions	(F8)					
-	ucky Mineral (S1) (L	.RR N,	Iron-Manganese Mas	sses (F12) (L	RR N,				
	147, 148)		MLRA 136)			2			
	leyed Matrix (S4)		Umbric Surface (F13						vegetation and
-	edox (S5)		Piedmont Floodplain				wetland hydro		
	Matrix (S6)		Red Parent Material	(F21) (MLRA	127, 147) '	unless disturb	ed or proble	ematic.
	ayer (if observed):								
Туре:									
Type: Depth (inc						Hydric So	oil Present?	Yes	No
Type: Depth (inc						Hydric Se	oil Present?	Yes	No
Type: Depth (inc			_			Hydric So	oil Present?	Yes	No <u></u>
Type: Depth (inc						Hydric Se	oil Present?	Yes	No <u></u>
Type: Depth (inc						Hydric S	oil Present?	Yes	No <u> </u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u> </u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u> </u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u> </u>
Type: Depth (inc						Hydric S	oil Present?	Yes	No <u> </u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u> </u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u> </u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u>~</u>
Type: Depth (inc						Hydric S	oil Present?	Yes	No <u>~</u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u>~</u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u>~</u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u></u>
Туре:						Hydric So	oil Present?	Yes	No <u></u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No <u></u>
Type: Depth (inc						Hydric So	oil Present?	Yes	No
Type: Depth (inc						Hydric So	oil Present?	Yes	No
Type: Depth (inc						Hydric So	oil Present?	Yes	No
Type: Depth (inc						Hydric So	pil Present?	Yes	No
Type: Depth (inc						Hydric So	pil Present?	Yes	No

Project/Site: MVP		City/County: Montgomery Sampling Date: 06/0					
Applicant/Owner: MVP					Sampling Point: W-KL58		
Investigator(s): E. Foster, J	. Cook, S. Pilcher						
Landform (hillslope, terrace, et			·		Slope (%): 0-2		
Subregion (LRR or MLRA): L							
Soil Map Unit Name: 29—Udo							
Are climatic / hydrologic condit	tions on the site typical fe						
Are Vegetation , Soil	, or Hydrology	significantly distur	bed? Are "Normal	I Circumstances" p	present? Yes No		
Are Vegetation, Soil							
					, important features, etc.		
Hydrophytic Vegetation Prese							
Hydric Soil Present?	ent? Yes Yes	_	Is the Sampled Area	Vac V	No		
Wetland Hydrology Present?		No	within a Wetland?	res	NO		
Remarks: Cowardin Co	ode: PEM	HGM: Slope	Water Type:	RPWWD			
Small emergent wetland	I next to railroad dite	ch/S-I1.					
HYDROLOGY							
Wetland Hydrology Indicate	ors:			Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum	of one is required; chec	k all that apply)		Surface Soil			
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa			
Saturation (A3)			es on Living Roots (C3)	Moss Trim L			
Water Marks (B1)		Presence of Reduced			Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur			
Drift Deposits (B3)	_	Thin Muck Surface (0			isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Other (Explain in Rer	marks)		tressed Plants (D1)		
Iron Deposits (B5)					Position (D2)		
Inundation Visible on Ae	• • • •			Shallow Aquitard (D3)			
Water-Stained Leaves (E	39)				aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations: Surface Water Present?	Yes No	Donth (inches):	1				
Water Table Present?	Yes No		<u>·</u>				
Saturation Present?	Yes No No		•	Hydrology Preser	nt? Yes ✔ No		
(includes capillary fringe)			Wetland		10 10 10 10 10 10 10 10 10 10 10 10 10 1		
Describe Recorded Data (stre	eam gauge, monitoring v	well, aerial photos, pre	evious inspections), if ava	allable:			
Remarks:							
Saturated between 0-8"	, dry underneath. W	later perching abo	ove restrictive layer.				

Samplin	a Point	W-KL58

30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:4 (A)
2				Total Niverban of Danisant
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				Specifica / for odd / fill off atta.
		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Co		
50% of total cover:0	20% of	total cover	: <u> </u>	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Salix nigra	5	~	OBL	FAC species x 3 =
2				FACU species x 4 =
				UPL species x 5 =
3		-		Column Totals: (A) (B)
4				Column rotals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				✓ 2 - Dominance Test is >50%
9	_			3 - Prevalence Index is ≤3.0 ¹
50% of total access 2.5		= Total Co		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 2.5	20% of	total cover	: <u> </u>	data in Remarks or on a separate sheet)
Tiero Stratum (Fiot Size)	0.5			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Typha latifolia	25		OBL	1 Toblematic Trydrophytic Vegetation (Explain)
2. Leersia oryzoides	25		OBL	1
3. Juncus effusus	20	~	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4 Carex stricta	15		OBL	
5. Solidago gigantea	5		FACW	Definitions of Four Vegetation Strata:
			171011	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9		-		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	90	Total Co		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		= Total Cover total cover		of size, and woody plants less than 3.20 it tall.
4.51	20% 01	total cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15)				height.
1				
2				
3				
4				
				Hydrophytic
5				Vegetation Present? Yes ✔ No
		= Total Co	_	resent: res_v No
50% of total cover:0	20% of	total cover	:0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	ription: (Describe t Matrix		Redox	x Features				•
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-15	10YR 5/1	95	10YR 6/6	5_	С	PL	CL	
								-
								-
	oncentration, D=Depl	etion, RM=I	Reduced Matrix, MS	S=Masked S	Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils ³ :
Histosol	• •		Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) C	oast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)	_	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		2)		P	iedmont Floodplain Soils (F19)
	d Layers (A5) ick (A10) (LRR N)		Depleted Mat	, ,	٠,		1/	(MLRA 136, 147) ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(Δ11)	Depleted Dar	•	•			ery Shallow Dark Surface (1712) ther (Explain in Remarks)
	ark Surface (A12)	(Д11)	Redox Depre					the (Explain in Kemarks)
	lucky Mineral (S1) (L	RR N	Iron-Mangane			I RR N		
	147, 148)	,	MLRA 130		3 (1 12) (,		
	Gleyed Matrix (S4)		Umbric Surfa	-	ILRA 1	36. 122)	³ Ind	icators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
	_ayer (if observed):				, ,	<u> </u>		·
	ompressed clay							
	ches): 15						Hydric Soil	Present? Yes ✔ No
Remarks:							,	
Nomans.								



Photograph Direction SW

Comments:		

Project/Site: MVP		City/C	ounty: Montgomery	,	Sampling Date: 06/01/2017
Applicant/Owner: MVP					Sampling Point: W-KL58-UF
Investigator(s): E. Foster, J. Cook,					
Landform (hillslope, terrace, etc.): Flat					Slope (%): 2-5
Subregion (LRR or MLRA): LRR N					
Soil Map Unit Name: 25—McGary and			20119		
Are climatic / hydrologic conditions on th					
Are Vegetation, Soil, or I		-			
Are Vegetation, Soil, or I					
SUMMARY OF FINDINGS – A			•	explain any answers	
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes		Is the Sampled Area		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	_ No
Remarks: Cowardin Code: UP			Water Type:		
	LAND	i i Oivi.	water Type.		
Pasture					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is	required; check	all that apply)		Surface Soil C	
Surface Water (A1)		True Aquatic Plants (B14)		etated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patt	
Saturation (A3)			es on Living Roots (C3)	Moss Trim Lin	
Water Marks (B1)	!	Presence of Reduced	I Iron (C4)	Dry-Season W	Vater Table (C2)
Sediment Deposits (B2)	!	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burro	ows (C8)
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	(Other (Explain in Ren	narks)	Stunted or Str	essed Plants (D1)
Iron Deposits (B5)				Geomorphic F	Position (D2)
Inundation Visible on Aerial Image	ry (B7)			Shallow Aquita	ard (D3)
Water-Stained Leaves (B9)					phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral 1	Test (D5)
Field Observations:		5 (1			
		Depth (inches):			
		Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland F	lydrology Present	? Yes No
Describe Recorded Data (stream gaug	e, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					
Remarks.					

VEGETATION (Four Strata) - Use scientific names of plants.

30'

Tree Stratum (Plot size: __

Woody Vine Stratum (Plot size: 15'

3. Poa pratensis

Sapling/Shrub Stratum (Plot size: 15'

___)

50% of total cover: ___0

% Cover Species? Status

0 = Total Cover

0 _ = Total Cover

100 = Total Cover

0 = Total Cover

50

50% of total cover: ______ 20% of total cover:____ 20

50% of total cover: 0 20% of total cover:

20% of total cover: 0

✓ <u>FACU</u>

✔ FACU

FACU

FACU

50% of total cover: 0 20% of total cover: 0

Sampling Poi	nt: W-KL58-L	JP
Dominance Test worksheet:		
Number of Dominant Species		
That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	2	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)
Prevalence Index worksheet:		
Total % Cover of:	Multiply by:	
OBL species x	1 =	
FACW species x :		
	3 =	
· ———	4 =	
UPL species x !	·	_
Column Totals: (A))	(B)
Prevalence Index = B/A =		_
Hydrophytic Vegetation Indicat	tors:	
1 - Rapid Test for Hydrophyt	ic Vegetation	
2 - Dominance Test is >50%		
3 - Prevalence Index is ≤3.0 ¹	1	
4 - Morphological Adaptation	ns¹ (Provide sup	porting
data in Remarks or on a s		
Problematic Hydrophytic Veg		in)
¹ Indicators of hydric soil and wetl be present, unless disturbed or p	and hydrology i	must
Definitions of Four Vegetation	Strata:	
Tree – Woody plants, excluding wore in diameter at breast height height.	vines, 3 in. (7.6	
Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall.		
Herb – All herbaceous (non-wood of size, and woody plants less that		rdless
Woody vine – All woody vines g height.	reater than 3.28	3 ft in
Hydrophytic Vegetation		

Remarks: (Include	photo	numbers	here	or on	a se	parate	sheet.)
------------	---------	-------	---------	------	-------	------	--------	---------

2. Trifolium pratense

4. Schedonorus arundinaceus

Pasture/field

Profile Desc	ription: (Describe t	o the depth i	needed to docur	nent the ind	licator o	r confirm	the abse	ence of indicato	rs.)	
Depth	Matrix		Redo	x Features	- 1					
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-15	10YR 4/3	100					L	Com	pressed thr	oughout
			_			·		· ·		
										_
							-			
										_
							-			_
	oncentration, D=Deple	etion, RM=Re	duced Matrix, MS	S=Masked S	and Gra	ins.		n: PL=Pore Linir		
Hydric Soil I	ndicators:						In	ndicators for Pr	oblematic Hye	dric Soils³:
Histosol		•	Dark Surface				_		10) (MLRA 1 4	17)
	pipedon (A2)		Polyvalue Be				148)	_ Coast Prairie		
Black Hi			Thin Dark Su			47, 148)		(MLRA 14		E40)
	n Sulfide (A4) I Layers (A5)	•	Loamy Gleye Depleted Ma		2)		_	Pleamont Flo (MLRA 13	odplain Soils (F19)
	ck (A10) (LRR N)	•	Redox Dark S						Dark Surface	(TF12)
	Below Dark Surface	(A11)	Depleted Dar				_	_	n in Remarks)	()
	rk Surface (A12)		Redox Depre		·		·		·	
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		(F12) (L	.RR N,				
	147, 148)		MLRA 13					•		
	leyed Matrix (S4)	•	Umbric Surfa					³ Indicators of hy		
	edox (S5)		Piedmont Flo					wetland hydrol		
	Matrix (S6) ayer (if observed):		Red Parent N	nateriai (FZ1) (WLKA	127, 147	<u>)</u>	unless disturbe	ea or problema	ITIC.
	ayer (ii observeu).									
Type:	shoo).		_				Usalaio	Cail Draggmt?	Vac	No V
	ches):		_				пушть	Soil Present?	Yes	No
Remarks:										

Project/Site: MVP	City/County: Montgomery	Sampling Date: 04/11/	/2016
Applicant/Owner: MVP	State: VA Sampling Point: W-E		
Investigator(s): D Hadersbeck, J Swilik, J P			
• , ,	Local relief (concave, convex, no		3
Subragion (LRR or MLRA): LRR N	Lat: 37.211043 Long:80	19318 Datum: NAI	D 83
Soil Map Unit Name: 25-McGary and Purdy soil		NWI classification: None	
	_		
	cal for this time of year? Yes No	•	_
	significantly disturbed? Are "Normal		lo
Are Vegetation, Soil, or Hydrology		xplain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach sit	te map showing sampling point location	ns, transects, important feature	es, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area		
Hydric Soil Present? Yes	No Is the Sampled Area within a Wetland?	Yes 🗸 No	
Wetland Hydrology Present? Yes	No	103	
Remarks: Cowardin Code: PFO	HGM: Riverine Water Type:	RPWWD	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two rec	nuired)
Primary Indicators (minimum of one is required; of	check all that apply)	Surface Soil Cracks (B6)	44
✓ Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface	∍ (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)	, (50)
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)	
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)	
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery ((C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)	.00)
✓ Iron Deposits (B5)		Geomorphic Position (D2)	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)	
✓ Water-Stained Leaves (B9)		Microtopographic Relief (D4)	
Aquatic Fauna (B13)		FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes No _	Depth (inches):1		
Water Table Present? Yes No	Depth (inches):7		
Saturation Present? Yes No	_	ydrology Present? Yes <u> </u>	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections), if ava	lable:	
Remarks:			

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling	Point: W-EF5-PFO	

Trac Street (Plat size 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:) 1 Platanus occidentalis	<u>% Cover</u> 50	Species?	FACW	Number of Dominant Species	5	(4)
2 Acer negundo	30			That Are OBL, FACW, or FAC:		(A)
3		· 	FAC	Total Number of Dominant Species Across All Strata:	7	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	71.4	(A/B)
6						
7				Prevalence Index worksheet:		
		= Total Cov	er	Total % Cover of:		
50% of total cover: 40	20% of	total cover:	16	OBL species x		
Sapling/Shrub Stratum (Plot size: 15'				FACW species x	2 =	
1. Lindera benzoin	40		FAC	FAC species x	3 =	_
2. Rosa multiflora	15	✓	FACU_	FACU species x	4 =	
3				UPL species x	5 =	
4				Column Totals: (A	.)	(B)
5						
				Prevalence Index = B/A =		_
6				Hydrophytic Vegetation Indica	tors:	
7				1 - Rapid Test for Hydrophyt	ic Vegetation	
8				✓ 2 - Dominance Test is >50%)	
9				3 - Prevalence Index is ≤3.0	1	
07.5		= Total Cov		4 - Morphological Adaptation	ns¹ (Provide su	porting
50% of total cover: <u>27.5</u>	20% of	total cover:		data in Remarks or on a		-
Herb Stratum (Plot size: 5') 1. Juncus effusus	10	~	FACW	Problematic Hydrophytic Ve	•	
2 Carex sp.	10		ND			
3. Microstegium vimineum	30		FAC	¹ Indicators of hydric soil and wet		must
4 Carex sp.	5		ND	be present, unless disturbed or p		
5. Glechoma hederacea	10		FACU	Definitions of Four Vegetation	Strata:	
·				Tree - Woody plants, excluding	vines, 3 in. (7.6	cm) or
6				more in diameter at breast heigh	t (DBH), regard	lless of
7				height.		
8				Sapling/Shrub - Woody plants,		
9				than 3 in. DBH and greater than	or equal to 3.2	8 ft (1
10				m) tall.		
11		-		Herb - All herbaceous (non-woo	dy) plants, rega	ardless
20.5		= Total Cov		of size, and woody plants less th	an 3.28 ft tall.	
50% of total cover: <u>32.5</u>	20% of	total cover:	13	Woody vine – All woody vines g	reater than 3.2	8 ft in
Woody Vine Stratum (Plot size:15')				height.		
1		·				
2						
3						
4				Hydrophytic		
5				Vegetation		
	0	= Total Cov	er	Present? Yes	No	
50% of total cover:0	20% of	total cover:	0			
Remarks: (Include photo numbers here or on a separate s	heet.)					
Carex species could not be identified so they we	•	as ND	They we	re not used in dominance tes	et.	
datex species could not be identified so they we	io listou	as ND.	i i i cy wci	te not used in dominance tes	,	

Matrix	0/:			ne ¹ Loc ²	Taytura	Domor	ke
					<u> </u>	Remai	KS
10yr 4/2	90	7.5yr 4/6		<u>M</u>	SiL	80% of layer co	nsists of pebble
ncentration. D=Depl	etion. RM=	Reduced Matrix. M	S=Masked San	d Grains.	² Location: P	 L=Pore Lining, M=Mat	rix.
ndicators:		, , , , , , , , , , , , , , , , , , , ,					
ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) ck (A10) (LRR N) I Below Dark Surface rk Surface (A12)		Polyvalue Be Thin Dark Su Loamy Gleye Depleted Ma Redox Dark S Depleted Dai Redox Depre Iron-Mangan MLRA 13 Umbric Surfa Piedmont Flo	low Surface (S rface (S9) (ML ad Matrix (F2) trix (F3) Surface (F6) ck Surface (F7) essions (F8) ese Masses (F 6) ce (F13) (MLR oodplain Soils (RA 147, 148) 12) (LRR N, A 136, 122) F19) (MLRA 1	. 148) C P V C 3Ind 48) we	Coast Prairie Redox (A (MLRA 147, 148) Piedmont Floodplain So (MLRA 136, 147) Pery Shallow Dark Surf Other (Explain in Remainship) Redicators of hydrophytic etland hydrology must	oils (F19) face (TF12) urks) vegetation and be present,
hes).					Hydric Soil	Present? Yes	No
	Color (moist) 10yr 2/2 10yr 4/2 10yr 4/2 10yr 4/2 ncentration, D=Depleted of the color of the c	Color (moist) % 10yr 2/2 98 10yr 4/2 90 10yr 4/2 90 Incentration, D=Depletion, RM= Indicators: (A1) Ippedon (A2) Stic (A3) In Sulfide (A4) Layers (A5) Ick (A10) (LRR N) Below Dark Surface (A11) Irk Surface (A12) Incky Mineral (S1) (LRR N, Inc. 147, 148) Include (Inc. 148) Incl	Color (moist) % Color (moist) 10yr 2/2 98 7.5yr 4/6 10yr 4/2 90 7.5yr 4/6 10yr 4/2 90 7.5yr 4/6 Indicators: (A1)	Color (moist) % Tyl 10yr 2/2 98 7.5yr 4/6 2 C 10yr 4/2 90 7.5yr 4/6 10 C 10yr 4/2 90 7.5yr 4/6 10 C Indicators: (A1)	Color (moist)	Color (moist)	Color (moist)

Wetland Photograph Page

Wetland ID $\underline{\text{W-EF5-PFO}}$ Date $\underline{\text{04/11/201}}$ 6



Photograph Direction North

Comments:	

Project/Site: MVP	ect/Site: MVP City/County: Montgomery					
				State: VA	Sampling Point: W-EF5-UP	
Investigator(s): D Hadersbeck, J Sw						
Landform (hillslope, terrace, etc.): Swe					Slone (%): 3	
Subregion (LRR or MLRA): LRR N					Datum: NAD 83	
Soil Map Unit Name: 11C-Duffield-Erne						
Are climatic / hydrologic conditions on the						
Are Vegetation, Soil, or H	ydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No	
Are Vegetation, Soil, or H	ydrology	naturally problema	atic? (If needed, e	explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Att	ach site m	ap showing sam	pling point locatio	ns, transects	s, important features, etc.	
Hydrophytic Vegetation Present?	Yes	No. V				
Hydric Soil Present?	Yes		Is the Sampled Area		🗸	
Wetland Hydrology Present?	Yes	No 🗸	within a Wetland?	Yes	No	
Remarks: Cowardin Code: UPL		HGM:	Water Type:			
Cowardin Code. UPL	LAND	ngivi.	Water Type:			
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is re	equired; checl	call that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)		
High Water Table (A2)		Hydrogen Sulfide Ode				
Saturation (A3)	_	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim L	ines (B16)	
Water Marks (B1)	_	Presence of Reduced	I Iron (C4)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	_	Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)				Geomorphic	Position (D2)	
Inundation Visible on Aerial Imager	y (B7)			Shallow Aqu	itard (D3)	
Water-Stained Leaves (B9)				Microtopogra	aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations:						
		Depth (inches):				
		Depth (inches):				
	No	Depth (inches):	13 Wetland H	lydrology Preser	nt? Yes No	
(includes capillary fringe) Describe Recorded Data (stream gauge	monitoring v	vell aerial photos pre	vious inspections) if ava	ilable:		
December Necestada Data (etream gaage	, monitoring t	ion, aonai priotos, pro	viodo inopositorioj, ii ava	nabio.		
Remarks:						

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: W-EF5-UP

Trop Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiee Stratum (Flot Size)		Species?		Number of Dominant Species	4	
1. Cercis canadensis	15		<u>FACU</u>	That Are OBL, FACW, or FAC:	1	(A)
2				Total Number of Deminent		
3				Total Number of Dominant Species Across All Strata:	5	(B)
				Species / toroco / til Otrata.		(5)
4				Percent of Dominant Species	20	
5				That Are OBL, FACW, or FAC:	20	(A/B)
6				Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by	
	<u>15</u> .	= Total Cov	er		Multiply by:	
50% of total cover: 7.5	20% of	total cover:	3	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2		
1. Rubus phoenicolasius	4	✓	FACU	FAC species x 3	3 =	_
2. Lindera benzoin	7	<u> </u>	FAC	FACU species x 4	4 =	_
3 Rosa multiflora			FACU	UPL species x 5		
<u> </u>				Column Totals: (A)		
4				(7)	, <u> </u>	_ (5)
5				Prevalence Index = B/A =		_
6				Hydrophytic Vegetation Indicat		
7				1 - Rapid Test for Hydrophyt		
8				2 - Dominance Test is >50%		
9						
	16	= Total Cov	er	3 - Prevalence Index is ≤3.0¹		
50% of total cover: 8				4 - Morphological Adaptation	ıs' (Provide sup	porting
Herb Stratum (Plot size: 5')		1010.		data in Remarks or on a s	separate sheet)	
1. Festuca rubra	20	~	FACU	Problematic Hydrophytic Veg	getation ¹ (Expla	in)
2 Glechoma hederacea	10					
		-	F <u>ACU</u>	¹ Indicators of hydric soil and wetl	and hydrology r	must
3				be present, unless disturbed or p		
4				Definitions of Four Vegetation	Strata:	
5		-	. <u> </u>	3		
6				Tree – Woody plants, excluding y		
7				more in diameter at breast height height.	(DBH), regardi	less of
			·	, noight.		
8		-	· ——	Sapling/Shrub – Woody plants,		
9				than 3 in. DBH and greater than	or equal to 3.28	3 ft (1
10				m) tall.		
11				Herb - All herbaceous (non-wood	dy) plants, rega	rdless
		= Total Cov		of size, and woody plants less that	an 3.28 ft tall.	
50% of total cover:15	20% of	total cover:	6	Woody vine – All woody vines qu	reater than 3 28	R ft in
Woody Vine Stratum (Plot size: 15')				height.	reater triair 5.20	, 10 111
1						
2						
3.						
4				Hydrophytic		
5				Vegetation Yes	No 🗸	
		= Total Cov	_	riesent: ies	NO <u> </u>	
50% of total cover: 0		total cover:	. 0			
Remarks: (Include photo numbers here or on a separate sl	heet.)					

Sampling Point: W-EF5-UP

SOIL

	ription: (Describe	to the depth				or confirm	the absence	of indicate	ors.)		
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	K Features	SType ¹	Loc ²	Texture		Remarks	s	
0-5	10yr 4/4	100	00.0. (0.0.,		.,,,,,		SiL	25% of	layer con		gravel
5-10	10yr 4/3	100					SiL	10% of	layer con	sists of g	gravel
10-16	10yr 4/3	92	7.5yr 5/8	8	С	M/PL	SiL		-	_	
					-						
						-					
	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: P				
Hydric Soil I									roblematic I	•	ls³:
Histosol			Dark Surface		oo (CC) (T	U D A 447			A10) (MLRA		
Histic Ep	stic (A3)		Polyvalue Bel		. , .		148) (oast Prairie MLRA 14)	e Redox (A16	0)	
	n Sulfide (A4)		Loamy Gleye			, 1 7 0)	F		oodplain Soil	ls (F19)	
	Layers (A5)		Depleted Mat		,		<u> </u>	(MLRA 13		/	
	ck (A10) (LRR N)		Redox Dark S						v Dark Surfa		
	Below Dark Surface	e (A11)	Depleted Dar				_ c	Other (Expla	in in Remark	ks)	
	irk Surface (A12) lucky Mineral (S1) (L	RR N	Redox Depre Iron-Mangane			IRRN					
	147, 148)	,	MLRA 136		C3 (1 12) (LIXIX IX,					
	leyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	³ Inc	licators of h	ydrophytic v	egetation a	and
	edox (S5)		Piedmont Flo						logy must be		
	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147) un	less disturb	ed or proble	matic.	
	.ayer (if observed):										
Type:	shoo).						Hydric Soil	Dracent?	Vaa	Na	/
Depth (inc	nes):						nyuric Soil	Present?	Yes	No	<u> </u>
Remarks:											

Project/Site: MVP	City/County: Roanoke Sampling Date: 07/14/20					
Applicant/Owner: MVP		State: VA	· -			
Investigator(s): D Hadersbeck S Ryan S Pit						
Landform (hillslope, terrace, etc.): Floodplain	Local relief (conca	ave, convex, none): Concave	Slope (%): 0-2			
Subregion (LRR or MLRA): LRR N	Lat: 37.179441	Long: -80.140791	Datum: NAD 83			
Soil Map Unit Name: 16E-Edneyville fine sandy						
Are climatic / hydrologic conditions on the site typic	_					
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes No			
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach sit	e map showing sampling	point locations, transec	ts, important features, etc.			
Hydrophytic Vegetation Present? Yes	V Na					
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No listne s	Sampled Area				
Wetland Hydrology Present? Yes		a Wetland? Yes	No			
Remarks: Cowardin Code: PSS	<u> </u>	Water Type: RPWWD				
	riow. ruvernie	rvater Type. Htt VVVVD				
Connects to W-EF17 via culvert						
HYDROLOGY						
Wetland Hydrology Indicators:		·	cators (minimum of two required)			
Primary Indicators (minimum of one is required; of		Surface So				
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on Liv		Lines (B16)			
Water Marks (B1)	Presence of Reduced Iron (C4	· — ·	n Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tille		urrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	_	Stressed Plants (D1) ic Position (D2)			
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)						
Water-Stained Leaves (B9)		Shallow Aquitard (D3)				
Aquatic Fauna (B13)			Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)			
Field Observations:		1 AO NOUI	ar 103t (D0)			
	Depth (inches):					
	Depth (inches):					
	Depth (inches):	Wetland Hydrology Pres	ent? Yes 🗸 No			
(includes capillary fringe)			ent: res <u>·</u> No			
Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previous ins	pections), if available:				
Remarks:						
S-EF35 runs through this wetland						

Sampling	Point:	W-EF18
Sambillia		

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Fiot Size.	% Cover	Species?	<u>Status</u>	Number of Dominant Species That Are OBL FACW or FAC: 3 (A)
1				That Are OBL, FACW, or FAC:3 (A)
2			·	Total Number of Dominant Species Across All Strata: 3 (B)
3				Species Across All Strata:3 (B)
4				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
				That Are OBL, FACW, or FAC:(A/B)
6		•		Prevalence Index worksheet:
	0 -	= Total Cov	ver	Total % Cover of: Multiply by:
50% of total cover:0		total cover	_	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Lindera benzoin	35	~	FAC	FAC species x 3 =
2.				FACU species x 4 =
3				UPL species x 5 =
4			·	Column Totals: (A) (B)
5			·	
6			·	Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8			· ——	✓ 2 - Dominance Test is >50%
9	35	= Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover:17.5	20% of	total cover	· 7	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	2070 01	10101 00101		data in Remarks or on a separate sheet)
1. Symplocarpus foetidus	35	~	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Boehmeria cylindrica	15	-	FACW	
3. Impatiens capensis	20	•	FACW	¹ Indicators of hydric soil and wetland hydrology must
4. Sium suave	40	~	OBL	be present, unless disturbed or problematic.
5. Microstegium vimineum	20		FAC	Definitions of Four Vegetation Strata:
6. Pilea pumila	10	-	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		-		more in diameter at breast height (DBH), regardless of
7				height.
8		-		Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10			· -	
11	140	T-1-1-0		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:	20% of	= Total Cov total cover	er · 28	of size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 15')	20 /0 01	total cover		Woody vine - All woody vines greater than 3.28 ft in
				height.
1			· -	
			·	
3			·	
4		-	·	Hydrophytic
5	_	Total Car		Vegetation Present? Yes ✓ No
50% of total cover: 0		= Total Cover	_	
Remarks: (Include photo numbers here or on a separate s		total cover		
Tremarks. (include prioto numbers here of on a separate s	neet.)			

Sampling Point: W-EF18

SOIL

	ription: (Describe	to the dept			dicator	or confirm	the absence	of indicate	ors.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	K Features	Type ¹	Loc ²	Texture	<u> </u>	Remarks	
0-1	10YR2/2	100					SIL			
1-3	10YR4/3	95	10YR4/6	5	С	М	SL			
3-8	10YR4/2	92	10YR3/6		C	M	SL			
	101114/2	32	101110/0		<u> </u>	101				
		-								
								-		
	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	=Masked S	Sand Gr	ains.			ng, M=Matrix.	
Hydric Soil I									roblematic Hy	
Histosol			Dark Surface		/ - -\ /-				A10) (MLRA 1	
	oipedon (A2)		Polyvalue Be				148) (e Redox (A16)	
Black Hi			Thin Dark Su	. , .		47, 148)	Г	(MLRA 14	•	(F10)
	n Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Mat		۷)		·	MLRA 13)	oodplain Soils	(୮19)
	ick (A10) (LRR N)		Redox Dark S	, ,)		\		v Dark Surface	(TF12)
	d Below Dark Surface	e (A11)	Depleted Dar	, ,	•				in in Remarks	
	ark Surface (A12)	, ,	Redox Depre							•
	lucky Mineral (S1) (L	.RR N,	Iron-Mangane	ese Masses	s (F12) (LRR N,				
	A 147, 148)		MLRA 136	-						
	Gleyed Matrix (S4)		Umbric Surfa						ydrophytic veg	
	ledox (S5)		Piedmont Flo						logy must be p	
	Matrix (S6)		Red Parent M	laterial (F2	1) (ML R	A 127, 147	7) ur	iless disturb	ed or problem	atic.
Type: CF	_ayer (if observed):									
							Hudela Cal	I Dunnaut?	v /	Na
Depth (inc	cnes): <u>o</u>						Hydric Soi	i Present?	Yes	No
Remarks:										



Photograph Direction North

Comments:			

Project/Site: MVP		City/C	_{ounty:} Roanoke		Sampling Date: 07/14/2016	
Applicant/Owner: MVP		Sampling Point: W-EF17				
Investigator(s): D Hadersbeck S Rya	an S Pitch	er DBR Section	on, Township, Range: N/			
Landform (hillslope, terrace, etc.): Flood			· -		Slone (%): 0-2	
Subregion (LRR or MLRA): LRR N					Datum: NAD 83	
Soil Map Unit Name: 16E-Edneyville fin						
Are climatic / hydrologic conditions on the		· ·				
Are Vegetation, Soil, or Hy				Circumstances"	present? Yes No	
Are Vegetation, Soil, or Hy	drology	naturally problema	atic? (If needed, e	explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Atta	ach site n	nap showing sam	pling point location	ons, transects	s, important features, etc.	
Hydraphytic Vegetation Present?	Voc. /	No				
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No No	Is the Sampled Area	4/		
Wetland Hydrology Present?	Yes V	No	within a Wetland?	Yes	No	
Demonitor			Motor Type			
Cowardin Code: PFO	1	HGM: Riverine	Water Type:	RPWWD		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is re	auired: chec	k all that apply)		Surface Soil		
Surface Water (A1)	quirou, orioc	True Aquatic Plants (I	B14)	· 	getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pa		
Saturation (A3)	<u> </u>		es on Living Roots (C3)	Moss Trim L		
Water Marks (B1)		Presence of Reduced	• , ,		Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction	` ,	Crayfish Bur		
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or S	stressed Plants (D1)	
Iron Deposits (B5)				Geomorphic	Position (D2)	
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu	itard (D3)	
Water-Stained Leaves (B9)				✓ Microtopographic Relief (D4)✓ FAC-Neutral Test (D5)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations:	/					
Surface Water Present? Yes	_ No	Depth (inches):				
	_	Depth (inches):				
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland F	lydrology Presei	nt? Yes <u>/</u> No	
Describe Recorded Data (stream gauge	monitoring	well, aerial photos, pre	vious inspections), if ava	ilable:		
Remarks:						

Sampling	Point: W-EF17
Januania	I Ullitary

Troo Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Fiot Size.		Species?		Number of Dominant Species
1. Fraxinus pennsylvanica	50		FACW_	That Are OBL, FACW, or FAC: 4 (A)
2. Acer rubrum	15		FAC	Total Number of Dominant
3. Salix nigra	15		OBL	Species Across All Strata: 4 (B)
4				Barrant of Barring of Oracina
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(VD)
7.				Prevalence Index worksheet:
	80	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 40				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1 Alnus serrulata	5		OBL	FAC species x 3 =
2. Lindera benzoin	30		FAC	FACU species x 4 =
2			r <u>AC</u>	UPL species x 5 =
3				Column Totals: (A) (B)
4				Column Totals (7) (5)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	35	= Total Cov	er	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:17.5	5 20% of	total cover	7	
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Symplocarpus foetidus	30	/	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Boehmeria cylindrica	25	~	FACW	
3. Persicaria sagittata	5		OBL	¹ Indicators of hydric soil and wetland hydrology must
4 Packera aurea	5		FACW	be present, unless disturbed or problematic.
5. Microstegium vimineum	20		FAC	Definitions of Four Vegetation Strata:
6. Pilea pumila	10		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Amphicarpaea bracteata	10		FAC	more in diameter at breast height (DBH), regardless of
···			1 //0	height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>52.5</u>	5 20% of	total cover	21	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:15')				height.
1				
2				
3				
4				
5.				Hydrophytic Vegetation
	0	= Total Cov		Present? Yes V No No
50% of total cover: 0		total cover	_	
Remarks: (Include photo numbers here or on a separate s				
remarks. (include prioto humbers here of on a separate s	ncci.)			
				l l

Sampling Point: W-EF17

SOIL

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Feature:	S					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-4	10YR3/2	100					SIL			
4-8	10YR4/2	95	10YR3/6	5_	С	M/PL	SL			
8-12	10YR4/2	85	10YR3/6	15_	С	M/PL	SL			
12-17	10YR5/1	80	10YR3/6	20	С	M/PL	S			
		-								
					-					
	-									
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.			ng, M=Matrix.	
Hydric Soil									oblematic Hy	
Histosol			Dark Surface	. ,	(00) (1				10) (MLRA 1 4	47)
	oipedon (A2)		Polyvalue Be		. , .		148) C		Redox (A16)	
Black Hi	stic (A3) en Sulfide (A4)		Thin Dark Su			147, 148)	П	(MLRA 14	7, 148) odplain Soils ((510)
	d Layers (A5)		Loamy Gleye Depleted Mat		F2)		P	MLRA 13	•	(F19)
	ick (A10) (LRR N)		Redox Dark S		·6)		V		Dark Surface	(TF12)
	d Below Dark Surface	(A11)	Depleted Dar	•	•				n in Remarks)	
Thick Da	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (LRR N,				
	A 147, 148)		MLRA 13				3			
	Gleyed Matrix (S4)		Umbric Surfa						drophytic veg	
-	Redox (S5) Matrix (S6)		Piedmont Flom Red Parent N					-	logy must be p ed or problema	
	Layer (if observed):		Ned ratefit is	iateriai (i	21) (WILIX	A 121, 141		ess distuible	ed of problems	alic.
Type:										
Depth (inc	ches):						Hydric Soil	Present?	Yes 🗸	No
Remarks:										
i										
i										
1										
1										



Photograph Direction South

Comments:		

Project/Site: MVP	City/County: Roar	noke	Sampling Date: 07/14/2016		
Applicant/Owner: MVP	cant/Owner: MVP				
Investigator(s): D Hadersbeck S Ryan S Pitcher	DBR Section, Township,	Range: N/A			
Landform (hillslope, terrace, etc.): Slope		-	Slope (%): 5-7		
Subregion (LRR or MLRA): LRR N Lat:			Datum: NAD 83		
Soil Map Unit Name: 16E-Edneyville fine sandy loam,	•	-			
Are climatic / hydrologic conditions on the site typical for		o (If no, explain in R			
Are Vegetation, Soil, or Hydrology			present? Yes No		
Are Vegetation, Soil, or Hydrology		f needed, explain any answe			
SUMMARY OF FINDINGS – Attach site ma			•		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No within a We		No		
Remarks: Cowardin Code: UPLAND F	IGM: Wat	er Type:			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required; check a		Surface Soil	Cracks (B6)		
	rue Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)		
	ydrogen Sulfide Odor (C1)				
	exidized Rhizospheres on Living R				
	resence of Reduced Iron (C4)	•	Water Table (C2)		
	ecent Iron Reduction in Tilled Soi				
	hin Muck Surface (C7) other (Explain in Remarks)		isible on Aerial Imagery (C9) tressed Plants (D1)		
Iron Deposits (B5)	and (Explain in Nomarks)	Geomorphic			
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu			
Water-Stained Leaves (B9)			aphic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)		
Field Observations:					
	Depth (inches):				
Water Table Present? Yes No [Depth (inches):				
	Depth (inches):	Wetland Hydrology Preser	nt? Yes No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, previous inspecti	ons), if available:			
Domorko					
Remarks:					

Sampling Point: V	V-EF17,WEF18-UF
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	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?		Number of Dominant Species	
1 Quercus rubra	80	V	FACU	·	۹)
2. Nyssa sylvatica	25		FAC	matric 652, 17(61), 6117(6.	',
			<u>FAC</u>	Total Number of Dominant	
3	-			Species Across All Strata:5 (E	3)
4				Percent of Dominant Species	
5					4/B)
6				mat/110 GBE, 1716W, 011716.	(,,)
				Prevalence Index worksheet:	
7	105			Total % Cover of: Multiply by:	
(= Total Cov		OBL species x 1 =	
50% of total cover: <u>52.5</u>	20% of	total cover:	21		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
1. Pinus strobus	40		FACU_	FAC species x 3 =	
2. Hamamelis virginiana	35	✓	FACU_	FACU species x 4 =	
2			. 7.00	UPL species x 5 =	
3				Column Totals: (A)	(B)
4				Column Totals (A)	(D)
5				Prevalence Index = B/A =	
6					
7				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 ¹	
	75	= Total Cov	er	4 - Morphological Adaptations ¹ (Provide suppor	rtina
50% of total cover: <u>37.5</u>	20% of	total cover:	15		rung
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)	
1. Acer rubrum	10	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
· · ·			1 /10		
2		-		¹ Indicators of hydric soil and wetland hydrology mus	st
3				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5				Dominione of Four Pogetation Guatar	
6.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm	
	-			more in diameter at breast height (DBH), regardless	s of
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines, le	220
9				than 3 in. DBH and greater than or equal to 3.28 ft	
10.				m) tall.	`
11					
11.	10			Herb – All herbaceous (non-woody) plants, regardle	ess
		= Total Cov	_	of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 5	20% of	total cover:	2	Woody vine – All woody vines greater than 3.28 ft	in
Woody Vine Stratum (Plot size: 15')				height.	
1					
2					
3	-				
	-				
4				Hydrophytic	
5				Vegetation	
	0	= Total Cov	er	Present? Yes No	
50% of total cover: 0	20% of	total cover:	0		
Remarks: (Include photo numbers here or on a separate s	heet.)				
(,				

Profile Desc	cription: (Describe	to the depti	h needed to docu	ment the i	indicator	or confirn	n the abse	ence of indicate	ors.)	
Depth	<u>Matrix</u>			x Feature			-		5	L-
(inches) 0-1	Color (moist) 10YR2/1	<u>%</u> 100	Color (moist)	%	Type ¹	Loc ²	<u>Textur</u>	<u>e</u>	Remark	KS
					-		SIL			
1-6	10YR4/3	100			-					
6-16	10YR5/4	100					SL			
		· ·								
		· · <u></u> - ·								_
			,							
		· ·			-					
1 _{Tymov} C C	anaphration D Dan	lotion DM I	Daduard Matrix M	C Maakaa			² l continu	n. Di Doro Lin	ina M Mot	<u></u>
Hydric Soil	oncentration, D=Dep Indicators:	ietion, Rivi=i	Reduced Matrix, M	S=IVIasked	sand Gra	ains.		n: PL=Pore Lin		Hydric Soils ³ :
Histosol			Dark Surface	e (S7)				_ 2 cm Muck (-
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147,	, 148) <u> </u>	Coast Prairie		
Black H	istic (A3)		Thin Dark S			47, 148)		(MLRA 14	17, 148)	
	en Sulfide (A4)		Loamy Gley	,	(F2)		_	_ Piedmont Fl		oils (F19)
	d Layers (A5) uck (A10) (LRR N)		Depleted Ma Redox Dark		-6)			(MLRA 13 Very Shallov		200 (TE12)
	d Below Dark Surfac	e (A11)	Depleted Da				_	Other (Expla		
	ark Surface (A12)	,	Redox Depr				_	(-		-,
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangar		es (F12) (LRR N,				
	A 147, 148)		MLRA 13	-		0 400)		3		
	Gleyed Matrix (S4) Redox (S5)		Umbric Surfa					³ Indicators of h wetland hydro		
	d Matrix (S6)		Red Parent					unless disturb		
	Layer (if observed):			(-	/ (, , , , , ,	1			
Type:										
Depth (in	ches):		<u></u>				Hydric	Soil Present?	Yes	No 🗸
Remarks:										
l										

Project/Site: MVP		City/C	county: Roanoke		Sampling Date: 08/28/2017		
Applicant/Owner: MVP					Sampling Point: W-IJ94-PEM		
Investigator(s): E. Foster, K. Pulver,	S. Pilcher	Section	on, Township, Range; N				
Landform (hillslope, terrace, etc.): Slope					Slope (%): 5		
Subregion (LRR or MLRA): LRR N					Datum: NAD 83		
Soil Map Unit Name: 9B - Cotaco loam,			Long				
Are climatic / hydrologic conditions on the							
• •	• •	•		•	·		
Are Vegetation, Soil, or H							
Are Vegetation, Soil, or H	ydrology	naturally problema	atic? (If needed,	explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS – Att	ach site n	nap showing sam	pling point location	ons, transects	s, important features, etc.		
Hydrophytic Vegetation Present?	Yes 🗸	No					
Hydric Soil Present?	Yes 🗸	No	Is the Sampled Area within a Wetland?	Yes 🗸	No		
Wetland Hydrology Present?	Yes 🗸	No	within a wettand:	163			
Remarks: Cowardin Code: PEN	1	HGM: Slope	Water Type:	RPWWD			
		Troill Giopo					
HYDROLOGY				O a a a da a a la d'a	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
Wetland Hydrology Indicators:		Lead that and A			ators (minimum of two required)		
Primary Indicators (minimum of one is re	equired; cnec			Surface Soil	, ,		
Surface Water (A1)	_	True Aquatic Plants (getated Concave Surface (B8)		
High Water Table (A2)	_	Hydrogen Sulfide Od	or (C1) es on Living Roots (C3)	✓ Drainage Pa			
Saturation (A3)		•	• , ,	 Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) 			
Water Marks (B1)Sediment Deposits (B2)	_	Presence of Reduced Recent Iron Reductio	` '				
Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Other (Explain in Ren			tressed Plants (D1)		
Iron Deposits (B5)		Other (Explain in Nei	namoj	Geomorphic			
Inundation Visible on Aerial Imagery	/ (B7)			Shallow Aqu			
Water-Stained Leaves (B9)	, ()				aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral			
Field Observations:							
Surface Water Present? Yes	No	Depth (inches):					
Water Table Present? Yes	No	Depth (inches):					
	No	Depth (inches):	Wetland I	Hydrology Preser	nt? Yes 🔽 No		
(includes capillary fringe) Describe Recorded Data (stream gauge	. monitoring v	well, aerial photos, pre	vious inspections), if ava	ailable:			
2000/ibb (toobrada 2ata (otroaii) gaage	, monitoring	ron, donar priotoc, pro	vious inspessions, ii ave	andbio.			
Remarks:							

VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15')

2. Impatiens capensis

3. Polygonum sagittata

Woody Vine <u>Stratum</u> (Plot size: ______)

Tree Stratum (Plot size: __

Herb Stratum (Plot size: ___ 1. Cicuta maculata

4. Osmunda claytoniana

___)

50% of total cover: ___0

5. Microstigeum vimineum 5 FAC

% Cover Species? Status

50% of total cover: 47.5 20% of total cover: 19

50% of total cover: 0 20% of total cover: 0

50% of total cover: 0 20% of total cover: 0

	a was a walled DEM							
mes of plants.	Sampling Point: W-IJ94-PEM							
Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:							
% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)							
	Total Number of Dominant Species Across All Strata: 2 (B)							
	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)							
	Prevalence Index worksheet:							
0 - Total Cover	Total % Cover of: Multiply by:							
= Total Cover 20% of total cover: 0	OBL species x 1 =							
_ 20 % or total cover	FACW species x 2 =							
	FAC species x 3 =							
 ,	FACU species x 4 =							
	UPL species x 5 =							
	Column Totals: (A) (B)							
	Prevalence Index = B/A =							
	Hydrophytic Vegetation Indicators:							
	1 - Rapid Test for Hydrophytic Vegetation							
	-							
0 = Total Cover	3 - Prevalence Index is ≤3.0 ¹							
= Total Cover 20% of total cover: 0	4 - Morphological Adaptations ¹ (Provide supporting							
_ 20 % or total cover	data in Remarks or on a separate sheet)							
50 ✔ OBL	Problematic Hydrophytic Vegetation ¹ (Explain)							
20 F ACW	-							
15 OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
<u>5</u> F <u>AC</u>	Definitions of Four Vegetation Strata:							
5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.							
	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.							
95 = Total Cover	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.							
_ 20% of total cover:19	Woody vine – All woody vines greater than 3.28 ft in height.							
0 = Total Cover	Hydrophytic Vegetation Present? Yes No							

Remarks: (Include photo numbers here or on a separate sheet.)

Depth	Matrix	%		K Features		Loc ²	Toyturo		Domor	·ko	
(inches) 0-2	Color (moist) 10YR 3/1	100	Color (moist)	%	Type ¹	LUC	Texture SiLo		Remar	67	
2-8	10YR 4/2	98	7.5YR 5/6	2	<u>C</u>	M/PL	<u>SaLo</u>				
8-20	10YR 4/1	93	7.5YR 5/8	7	<u>C</u>	M/PL	LoSa				
		-					-				
		-			-		-	ī			
							2				
	oncentration, D=Depl	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ins.	² Location: F				:- C-:1-3.
	Indicators:		Dorle Curfoso	(07)				ators for P		-	
_ Histosol	oipedon (A2)		Dark Surface Polyvalue Be	. ,	م (SR) (M	Ι R Δ 147		cm Muck (Coast Prairie)
	istic (A3)		Tolyvalde Be					MLRA 14)		.0,	
	en Sulfide (A4)		Loamy Gleye			, ,	F	Piedmont Flo		oils (F	19)
	d Layers (A5)		Depleted Mat					(MLRA 13			
	uck (A10) (LRR N)	(*)	Redox Dark S					ery Shallov			F12)
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Dar Redox Depre				_ (Other (Expla	ın ın Rema	ırks)	
	Ark Surface (A12) Aucky Mineral (S1) (L	RR N	Iron-Mangane			RR N					
	A 147, 148)	,	MLRA 130		55 (1 12) (2	,					
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 136	5, 122)	³ Inc	dicators of h	ydrophytic	vegeta	ation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19) (MLRA 14	8) we	etland hydro	logy must	be pre	sent,
Stripped	l Matrix (S6)		Red Parent M	1aterial (F	21) (MLR<i>A</i>	127, 147	') ur	less disturb	ed or prob	lemati	C
	Layer (if observed):										
Туре:			<u> </u>								
Type: Depth (in			<u> </u>				Hydric Soi	I Present?	Yes	<u></u>	No
Type:							Hydric Soi	I Present?	Yes		No
Type:			_				Hydric Soi	I Present?	Yes	<u>/</u>	No
Type: Depth (in							Hydric Soi	I Present?	Yes		No
Type: Depth (in							Hydric Soi	l Present?	Yes		No
Type:			_				Hydric Soi	I Present?	Yes		No
Type: Depth (in							Hydric Soi	I Present?	Yes		No
Type:							Hydric Soi	I Present?	Yes	_	No
Type: Depth (in							Hydric Soi	I Present?	Yes		No
Type: Depth (in							Hydric Soi	I Present?	Yes_		No
Type: Depth (in							Hydric Soi	I Present?	Yes_		No
Type:							Hydric Soi	I Present?	Yes		No
Type:							Hydric Soi	I Present?	Yes		No
Type:							Hydric Soi	I Present?	Yes		No
Type: Depth (in							Hydric Soi	I Present?	Yes_		No
Type: Depth (in							Hydric Soi	I Present?	Yes		No
Type:							Hydric Soi	I Present?	Yes		No
Type: Depth (in							Hydric Soi	I Present?	Yes		No
Type: Depth (in							Hydric Soi	I Present?	Yes		No
Type:							Hydric Soi	I Present?	Yes		No
Type: Depth (in							Hydric Soi	I Present?	Yes		No
Type: Depth (in							Hydric Soi	I Present?	Yes		No
Type:							Hydric Soi	I Present?	Yes		No

Wetland Photograph Page

Wetland ID $\underline{\text{W-IJ94-PEM}}$ Date $\underline{\text{08/28/201}}$ 7



Photograph Direction South

Comments:			

Project/Site: MVP	City/County:	Roanoke		Sampling Date: 08/28/2017	
Applicant/Owner: MVP				Sampling Point: W-IJ94-95-UP	
Investigator(s): E. Foster, K. Pulver, S. Pilcher	Section, Toy	nship, Range: N/		_	
Landform (hillslope, terrace, etc.): Slope				Slone (%): 5	
Subregion (LRR or MLRA): LRR N Lat				Datum: NAD 83	
Soil Map Unit Name: 42A - Sindion loam, 0 to 2 pe		_			
Are climatic / hydrologic conditions on the site typical f	•				
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal	Circumstances" p	oresent? Yes No	
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, ex	xplain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site n	nap showing sampling	point location	ns, transects	, important features, etc.	
Hydrophytic Vegetation Present? Yes	No.				
Hydric Soil Present? Yes	No. V	Sampled Area	Vaa	No. 4	
Wetland Hydrology Present? Yes	WILIII	n a Wetland?	res	No	
Remarks: Cowardin Code: UPLAND	HGM:	Water Type:			
		,,			
HYDROLOGY					
Wetland Hydrology Indicators:		:	Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is required; chec	ck all that apply)		Surface Soil		
Surface Water (A1)	True Aquatic Plants (B14)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Drainage Pa		
Saturation (A3)		hizospheres on Living Roots (C3) Moss Trim Lines (B16)			
Water Marks (B1)	Presence of Reduced Iron (•		Water Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction in Til	led Soils (C6)	Crayfish Burrows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C7)			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)			tressed Plants (D1) Position (D2)	
Inundation Visible on Aerial Imagery (B7)		•	Shallow Aqui		
Water-Stained Leaves (B9)				aphic Relief (D4)	
Aquatic Fauna (B13)		•	FAC-Neutral	` '	
Field Observations:				· ,	
Surface Water Present? Yes No	_ Depth (inches):				
Water Table Present? Yes No	Depth (inches):				
		Wetland H	vdrology Presen	it? Yes No_ 🗸	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous i	nspections), if avail	lable:		
Remarks:					

Troo Stratum (Plot size: 30'	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tiee Stratum (Flot Size)		Species?	Status	Number of Dominant Species
1. Acer rubrum	50		FAC	That Are OBL, FACW, or FAC:1 (A)
2. Pinus strobus	30		<u>FACU</u>	Total Number of Danisant
3				Total Number of Dominant Species Across All Strata:3 (B)
4				Openies / toross / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33.3 (A/B)
6		-		Prevalence Index worksheet:
7				
	80	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 40	20% of	total cover:	16	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species x 3 =
				FACU species x 4 =
2				UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
•		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				i i
1				Problematic Hydrophytic Vegetation ¹ (Explain)
2				
				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				g
•				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	0 .	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover:0	20% of	total cover:	0	
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in
1 Rosa multiflora	15	✓	FACU	height.
·· ·				
2				
3				
4				Hydrophytic
5				Vegetation
	15 ,	= Total Cov	er	Present? Yes No
50% of total cover:7.5		total cover:	_	
		total cover.		1
Remarks: (Include photo numbers here or on a separate s	neet.)			

Profile Desc	cription: (Describe t	o the depth	needed to docum	nent the ir	ndicator o	or confirm	the absence	e of indicato	ors.)	
Depth	Matrix			x Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	_	Remark	(S
0-10	10YR 4/4	100					SiLo			
	-							-		
								-		
	-							<u> </u>		
								<u> </u>		
	-									
1Type: C-C	oncentration, D=Deple	etion RM-R	educed Matrix MS	S-Maskad	Sand Gra	ine	² Location: F	Pl –Pore Lini	ina M-Matr	iv
Hydric Soil		ouon, rawi–ra	Caacca Matrix, Mc	J-Maskea	Odrid Ore					Hydric Soils ³ :
Histosol			Dark Surface	(\$7)				2 cm Muck (-
	oipedon (A2)		Polyvalue Be		CA (SA) /M	I R A 1/17		Coast Prairie		
	stic (A3)		Thin Dark Su				1+0) \	MLRA 14)		0)
	en Sulfide (A4)		Loamy Gleye			-1, 1 40)	ı	Piedmont Flo		ile (F10)
	d Layers (A5)		Depleted Ma	,	<u>~</u>)		'	MLRA 13)	•	(1 13)
	uck (A10) (LRR N)		Redox Dark \$		6)		,	Very Shallow		ace (TF12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Expla		
	ark Surface (A12)	(, , , ,	Redox Depre				 '	O (_ , p . a.		,
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan			RR N,				
	A 147, 148)	•	MLRA 13		() (•				
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	3In	dicators of h	ydrophytic v	egetation and
	Redox (S5)		Piedmont Flo					etland hydro		
Stripped	Matrix (S6)		Red Parent N	Material (F2	21) (MLR	A 127, 147	') ui	nless disturb	ed or proble	ematic.
Restrictive	Layer (if observed):									
Type: Re	efusal		<u></u>							
Depth (in	ches): 10						Hydric Soi	il Present?	Yes	No 🗸
Remarks:	, -						1 -		'	

Project/Site: MVP		City/County: Roanoke Sampling Date: 08/29/201					
Applicant/Owner: MVP		State: VA Sampling Point: W-IJ!					
Investigator(s): E. Foster, K. Pulver, S. Pilcher Section, Township, Range: N/A							
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%)							
Subregion (LRR or MLRA): LRR N Lat: 37.16945 Long: -80.130305 Datum: NAL							
Soil Map Unit Name: 16D - Edneyville f							
Are climatic / hydrologic conditions on the	site typical for	this time of year? Y	es No	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or H	ydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No		
Are Vegetation, Soil, or H							
SUMMARY OF FINDINGS – Att	-						
Hadanaha Ca VanataCaa Baasa (O		No		·	· · · · · · · · · · · · · · · · · · ·		
Hydrophytic Vegetation Present? Hydric Soil Present?		No No	Is the Sampled Area				
Wetland Hydrology Present?	Yes V	No	within a Wetland?	Yes	No		
Remarks: Cowardin Code: PEN			Motor Turo				
Wetland transitions from I	PEM to PSS	at edge of surve	ey corridor				
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is re				Surface Soil	Cracks (B6)		
Surface Water (A1)		True Aquatic Plants (Sparsely Ve	getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pa			
Saturation (A3)			• ,	Moss Trim L			
Water Marks (B1)		Presence of Reduced			Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur			
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)		tressed Plants (D1)		
Iron Deposits (B5) Inundation Visible on Aerial Imager	v (R7)			Geomorphic Position (D2)			
Water-Stained Leaves (B9)	y (B7)			Shallow Aquitard (D3) Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral Test (D5)			
Field Observations:					1001 (20)		
	No 🗸	Depth (inches):					
		Depth (inches):					
Saturation Present? Yes		Depth (inches):	Wetland H	lydrology Preser	nt? Yes ✔ No		
(includes capillary fringe)		. , ,			103 <u></u> 110 <u></u>		
Describe Recorded Data (stream gauge	, monitoring we	ell, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							
Steady rain during day of survey	1						

VEGETATION (Four Strata) – Use scientific names of plants.

mes of	piarits.		Sampling Point: W-IJ96
			Dominance Test worksheet:
% Cover 7	Species?	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
			Total Number of Dominant
			Species Across All Strata: 6 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 66.67 (A/B)
			Prevalence Index worksheet:
7	= Total Cov	er	Total % Cover of: Multiply by:
			OBL species x 1 =
_			FACW species x 2 =
5	✓	FAC	FAC species x 3 =
5			FACU species x 4 =
5			UPL species x 5 =
			Column Totals: (A) (B)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
15	– Total Cov		3 - Prevalence Index is ≤3.0 ¹
			4 - Morphological Adaptations ¹ (Provide supporting
			data in Remarks or on a separate sheet)
15		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
40		OBL	
	~		¹ Indicators of hydric soil and wetland hydrology must
	· -		be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
		1 700	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of
			height.
			Sapling/Shrub – Woody plants, excluding vines, less
	· 		than 3 in. DBH and greater than or equal to 3.28 ft (1
			m) tall.
			Herb - All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
_ 20% of	total cover:	10	Woody vine – All woody vines greater than 3.28 ft in
			height.
			Hydrophytic
			Hydrophytic Vegetation
0		_	
	7 7 20% of 5 5 5 5 15 40 20 10 5	7 = Total Cov 20% of total cover: 5	% Cover Species? Status 7 ✓ FAC 20% of total cover: 1.4 5 ✓ FACU 0 ✓ OBL 40 ✓ OBL 20 ✓ FACW 10 OBL FACU

Sampling Point: W-IJ96

SOIL

Profile Desc	ription: (Describe to	the depth	needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redox	K Features	3				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	-
0-9	10YR 4/1	97	7.5YR 4/6	3	С	M/PL	SaLo		
9-20	2.5Y 5/1	100					LoSa	-	
									
								-	
			_					_	
								-	
1			Na disa a di Matrico MC	N4==1==1	0		21 1'	N. Daniel Calain M. Maria	
Hydric Soil	oncentration, D=Deple	etion, RM=F	reduced Matrix, MS	=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix ators for Problematic H	
Histosol			Dark Surface	(87)				cm Muck (A10) (MLRA	-
	oipedon (A2)		Polyvalue Bel		ce (S8) (N	II RA 147		Coast Prairie Redox (A16	
Black Hi			Thin Dark Sui					(MLRA 147, 148)	,
	en Sulfide (A4)		Loamy Gleye			, -,	F	Piedmont Floodplain Soils	s (F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)	
	ıck (A10) (LRR N)		Redox Dark S	,	,			ery Shallow Dark Surfac	
	d Below Dark Surface	(A11)	Depleted Dar				_ (Other (Explain in Remark	s)
	ark Surface (A12)	DD N	Redox Depre			I DD N			
	lucky Mineral (S1) (L l \ 147, 148)	KK N,	Iron-Mangane		es (F12) (LKK N,			
	Gleyed Matrix (S4)		Umbric Surfac		MLRA 13	6. 122)	³ Inc	dicators of hydrophytic ve	egetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be	-
	Matrix (S6)		Red Parent M					less disturbed or probler	
Restrictive I	Layer (if observed):								
Type:			<u>—</u>						
Depth (in	ches):						Hydric Soi	l Present? Yes 🔽	No
Remarks:									



Photograph Direction South

Comments:		

Project/Site: MVP	City/Cou	_{inty:} Roanoke		Sampling Date: 08/29/2017		
Applicant/Owner: MVP			Sampling Point: W-IJ96-UP			
Investigator(s): E. Foster, K. Pulver, S. P	ilcher Section.	Township, Range: N/A		_		
Landform (hillslope, terrace, etc.): Hillslope				Slope (%): 0-5		
Subregion (LRR or MLRA): LRR N				Datum: NAD 83		
Soil Map Unit Name: 16D - Edneyville fine sa						
Are climatic / hydrologic conditions on the site t						
Are Vegetation, Soil, or Hydrold						
Are Vegetation, Soil, or Hydrolo	gy naturally problemation	c? (If needed, e.	xplain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach	site map showing samp	ling point locatio	ns, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes	<u> ✓ No</u>					
	No. 🗸	s the Sampled Area vithin a Wetland?	Vac	No 🗸		
	No	VICIIII d VVCIIdiiu :	169	NO		
Remarks: Cowardin Code: UPLANE		Water Type:				
Oowardin Gode. Of LANE	i iOivi.	vvalor rypo.				
HYDROLOGY				•		
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B1	4)	Sparsely Veg	getated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor		Drainage Pat	tterns (B10)		
Saturation (A3)	Oxidized Rhizospheres	on Living Roots (C3)	Moss Trim Lines (B16)			
Water Marks (B1)	Presence of Reduced Ir	on (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction i	n Tilled Soils (C6)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Rema	rks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)			Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui			
Water-Stained Leaves (B9)			Microtopographic Relief (D4)			
Aquatic Fauna (B13)		,	FAC-Neutral	Test (D5)		
Field Observations:						
Surface Water Present? Yes No	Depth (inches):					
	Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland H	ydrology Presen	t? Yes No		
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previo	ous inspections), if avai	lable:			
Remarks:						

.30,			Indicator	Dominance Test worksheet:	
ree Stratum (Plot size: 30')	_	Species?		Number of Dominant Species	0
Acer rubrum			FAC	That Are OBL, FACW, or FAC:	3 (A)
Quercus rubra	5		FACU_	Total Number of Dominant	
	_			Species Across All Strata:	4 (B)
		. <u></u>		Percent of Deminent Species	
·				Percent of Dominant Species That Are OBL, FACW, or FAC:	75 _{(A/I}
<u>-</u>					
				Prevalence Index worksheet:	
	65	= Total Cov	er	Total % Cover of:	
50% of total cover: <u>32</u>	.5 20% of	total cover:	13	OBL species x 1	=
apling/Shrub Stratum (Plot size: 15')				FACW species x 2	<u>?</u> =
Hammamelis virginiana	15	~	FACU	FAC species x 3	3 =
				FACU species x 4	l =
				UPL species x 5	i =
				Column Totals: (A)	
				()	(
·				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicate	ors:
				1 - Rapid Test for Hydrophyti	c Vegetation
-				✓ 2 - Dominance Test is >50%	
·				3 - Prevalence Index is ≤3.0 ¹	
_		= Total Cov		4 - Morphological Adaptations	s1 (Provide supporti
50% of total cover: 7.	5 20% of	total cover:	3	data in Remarks or on a s	
lerb Stratum (Plot size: 5')	_			Problematic Hydrophytic Veg	
Acer rubrum	5		FAC	Froblematic Hydrophytic veg	etation (Explain)
Parathelypteris noveboracensis	5		FAC	1 and in a town of building a city and weather	
•		· <u></u>		¹ Indicators of hydric soil and wetla be present, unless disturbed or pr	
·				Definitions of Four Vegetation S	
·				Deminions of Four Vegetation (Julia.
				Tree – Woody plants, excluding v	, , ,
				more in diameter at breast height height.	(DBH), regardless of
				inoight.	
	_			Sapling/Shrub – Woody plants, e	excluding vines, less
•	_			than 3 in. DBH and greater than c m) tall.	or equal to 3.28 ft (1
0		· 		,	
1	10			Herb – All herbaceous (non-wood	
50% of total cover: 5	. ——	= Total Cov total cover:	_	of size, and woody plants less that	III 3.26 II Iaii.
Voody Vine Stratum (Plot size: 15')	20% 01	total cover.		Woody vine – All woody vines gr	eater than 3.28 ft in
				height.	
•					
		· 			
•		·		Hydrophytic	
				Vegetation	
_		= Total Cov		Present? Yes	No
50% of total cover:0	20% of	total cover:	0		
temarks: (Include photo numbers here or on a separate	sheet.)			1	

	Matrix Color (moist)	%	Redox Features	Loc ²	Texture		Da	l/O	
nches) 0-1	10YR 2/1	100	Color (moist) % Type ¹	LOC	SiLo		Remark 30% or		
	-				•		30 /6 01	yanıcs	
1-5	10YR 3/2	100			SiLo				
5-12	10YR 4/3	100			SaLo		50% g	ravel	
_		-							
					-	-			
ype: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS=Masked Sand Grain	ns.	² Location: F				
/dric Soil I	ndicators:				Indic	ators for Pr	oblematic	Hydric So	oils³:
_ Histosol			Dark Surface (S7)			2 cm Muck (
	ipedon (A2)		Polyvalue Below Surface (S8) (ML		148) (Coast Prairie		16)	
Black His	stic (A3) n Sulfide (A4)		Thin Dark Surface (S9) (MLRA 14 Loamy Gleyed Matrix (F2)	7, 148)		(MLRA 14 Piedmont Flo		sile (E10)	
	Layers (A5)		Depleted Matrix (F3)		'	MLRA 13)) (1-19)	
	ck (A10) (LRR N)		Redox Dark Surface (F6)		\	ery Shallow		ace (TF12))
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		(Other (Expla	in in Rema	rks)	
	rk Surface (A12)		Redox Depressions (F8)						
	lucky Mineral (S1) (L	.RR N,	Iron-Manganese Masses (F12) (LI	RR N,					
	147, 148) leyed Matrix (S4)		MLRA 136) Umbric Surface (F13) (MLRA 136)	122\	3In	dicators of h	vdrophytic	vegetation	and
	edox (S5)		Piedmont Floodplain Soils (F19) (F19)			etland hydro		-	
	Matrix (S6)		Red Parent Material (F21) (MLRA			nless disturb			,
					1				
estrictive L	ayer (if observed):								
estrictive L Type: Re									
	fusal				Hydric Soi	I Present?	Yes	No _	,
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	~
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u> </u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u> </u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u> </u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u> </u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u> </u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	∨
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>~</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	✓
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	✓
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>
Type: Re	fusal				Hydric Soi	I Present?	Yes	No _	<u>v</u>

Project/Site: MVP	City/County: Roanoke Sampling Date: 08/29/201					
Applicant/Owner: MVP	State: VA Sampling Point: W-I					
Investigator(s): E. Foster, K. Pulver, S. Pilcher Section, Township, Range: N/A						
Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): Concave						
Subregion (LRR or MLRA): LRR N Lat: <u>37.169202</u> Long: <u>-80.129255</u> Datum: NA						
Soil Map Unit Name: 16D - Edneyville fine sand						
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes	No (If no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes No			
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach sit						
Hydrophytia Vagetation Present?	V No Is the Sc					
	No.	mpled Area	,			
Wetland Hydrology Present? Yes	No within a	Wetland? Yes	, No			
Remarks: Cowardin Code: PEM		/ater Type: RPWWD				
Slope wetland channelizes down	•	• •				
HADBOLOCA						
HYDROLOGY		Cocondon India	notors (minimum of two required)			
Wetland Hydrology Indicators:	chook all that apply)	` <u></u>	ators (minimum of two required)			
Primary Indicators (minimum of one is required; Surface Water (A1)	True Aquatic Plants (B14)	Surface Soi	egetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		atterns (B10)			
Saturation (A3)	✓ Oxidized Rhizospheres on Livin					
Water Marks (B1)	Presence of Reduced Iron (C4)	-	Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	- '				
Drift Deposits (B3)	Thin Muck Surface (C7)		/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)			
Iron Deposits (B5)		<u>✓</u> Geomorphi	c Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		Microtopographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)			
Field Observations:	•					
	Depth (inches):					
	Depth (inches):		_			
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	nt? Yes No			
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous insp	ections), if available:				
Remarks:						
Tromano.						

VEGETATION (Four Strata) – Use scientific names of plants.

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-IJ97
30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30') 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
2		· <u></u>		
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				(-/
5				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
6				That Are OBL, FACW, or FAC: 100 (A/B)
7				Prevalence Index worksheet:
	0	= Total Cov	or	Total % Cover of: Multiply by:
50% of total cover: 0				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')		10101 00101		FACW species x 2 =
1				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
3				Column Totals: (A) (B)
4				(5)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
50% -(1-1-1		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0 Herb Stratum (Plot size: 5')	20% of	total cover:		data in Remarks or on a separate sheet)
(ist size:)	45	~	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Leersia oryzoides	15		FACW	
2. Juncus effusus				¹ Indicators of hydric soil and wetland hydrology must
3. Persicaria sagittata	20		OBL	be present, unless disturbed or problematic.
4. Vernonia noveboracensis	10		FACW_	Definitions of Four Vegetation Strata:
5. Solidago gigantea	20		FACW_	Tree Meady plants and discovering 2 in (7.0 cm) or
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8		·		Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11		· <u></u>		Herb – All herbaceous (non-woody) plants, regardless
	110	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 55	20% of	total cover:	22	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1		· <u></u>		
2				
3				
4.				Underskirt
5.				Hydrophytic Vegetation
	0	= Total Cov	er	Present? Yes V No No
50% of total cover:0		total cover:	_	
Remarks: (Include photo numbers here or on a separate s	heet.)			1
, , , , , , , , , , , , , , , , , , ,	,			

Sampling Point: W-IJ97

SOIL

Profile Desc	ription: (Describe t	o the depth	n needed to docum	nent the i	ndicator	or confirm	the absence	of indicator	rs.)	
Depth	Matrix		Redox	k Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-3	10YR 4/2	99	7.5YR 5/6		С	M/PL	SiLo			
3-7	10YR 5/1	97	7.5YR 5/8	3_	С	M/PL	SiLo			
7-20	10YR 5/1	85	7.5YR 5/8	15_	С	M/PL	SiLo			
								_		_
						·				
	-									
						·				
	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: P			
Hydric Soil									oblematic Hyd	
Histosol			Dark Surface	. ,	· · (OO) (B	41 DA 447			10) (MLRA 14	-7)
	oipedon (A2)		Polyvalue Bel		. , .		148) 0		Redox (A16)	
Black Hi	en Sulfide (A4)		Thin Dark Su Loamy Gleye			147, 148)	Б	(MLRA 147	odplain Soils (l	E10)
	d Layers (A5)		Depleted Mat		(2)			(MLRA 136		19)
	uck (A10) (LRR N)		Redox Dark S		6)		V		Dark Surface	(TF12)
	d Below Dark Surface	(A11)	Depleted Dar	,	,			•	n in Remarks)	` ,
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	3)					
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (LRR N,				
	A 147, 148)		MLRA 136				2			
	Gleyed Matrix (S4)		Umbric Surfa					-	drophytic vege	
	Redox (S5)		Piedmont Flo					-	ogy must be pr	
	Matrix (S6) Layer (if observed):		Red Parent M	faterial (F	21) (MLR	A 127, 147) un	less disturbe	d or problema	tic.
Type:	Layer (II observed).									
	ches):		<u> </u>				Hydric Soil	Present?	Yes 🗸	No
Remarks:			_				,			
rtomanto.										



Photograph Direction West

Comments:	

Project/Site: MVP			City/C	_{ounty:} Roanoke		Sampling Date: 08/29/2017				
Applicant/Owner: MVP				,		Sampling Point: W-IJ97-98-UP				
Investigator(s): E. Foster, K	C. Pulver, S	S. Pilcher	Section	on, Township, Range: N						
Landform (hillslope, terrace, et						Slope (%): 3-5				
Subregion (LRR or MLRA): L						Datum: NAD 83				
Soil Map Unit Name: 16D - E										
Are climatic / hydrologic condit										
			-			present? Yes No				
Are Vegetation, Soil	-									
Are Vegetation, Soil	-				explain any answe					
SUMMARY OF FINDIN	GS – Atta	ich site m	nap showing sam	pling point location	ons, transects	s, important features, etc.				
Hydrophytic Vegetation Pres	ent?	Yes	No_ 🗸	Is the Sampled Area						
Hydric Soil Present?		Yes	No	within a Wetland?	Yes	No 🗸				
Wetland Hydrology Present?	1	Yes	_ No							
Remarks: Cowardin C	ode: UPL/	AND	HGM:	Water Type:						
Pasture, mowed/	/maintaine	d								
,										
HYDROLOGY										
Wetland Hydrology Indicate	ors:				Secondary Indica	ators (minimum of two required)				
Primary Indicators (minimum		quired; chec	k all that apply)		Surface Soil					
Surface Water (A1)			True Aquatic Plants (B14)		getated Concave Surface (B8)				
High Water Table (A2)						Drainage Patterns (B10)				
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3)										
Water Marks (B1) Presence of Reduced Iron (C4)					Dry-Season Water Table (C2)					
Sediment Deposits (B2)		_	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bur	rows (C8)				
Drift Deposits (B3)			Thin Muck Surface (C	37)	Saturation V	isible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		_	Other (Explain in Ren	narks)	Stunted or S	tressed Plants (D1)				
Iron Deposits (B5)						Position (D2)				
Inundation Visible on Ae		(B7)			Shallow Aqu					
Water-Stained Leaves (E	39)					aphic Relief (D4)				
Aquatic Fauna (B13)					FAC-Neutral	Test (D5)				
Field Observations: Surface Water Present?	Voc	No.	Depth (inches):							
Water Table Present?	Voc	No V	Depth (inches):							
Saturation Present?			Depth (inches):		Judralagy Praca	nt? Yes No_ 🗸				
(includes capillary fringe)						it! TesNo				
Describe Recorded Data (str	eam gauge,	monitoring v	vell, aerial photos, pre	vious inspections), if ava	ailable:					
Remarks:										

20'	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Danisant
3				Total Number of Dominant Species Across All Strata: (B)
4				(B)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
	0 _	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
				FAC species x 3 =
1				FACU species x 4 =
2				
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Provolence Index D/A
6		-		Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7			-	1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	0 _	= Total Cov	er	4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:5'				data in Remarks or on a separate sheet)
1. Poa pratensis	55	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Dicanthelium clandestinum	15		FAC	
3. Anthoxanthum odorata	25		FACU	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Daucus carota	5		FACU_	Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				noight.
				Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than or equal to 3.28 ft (1
9				
•				m) tall.
9				m) tall.
9	100	= Total Cov	er	
9	100 :	= Total Cov		m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	100 :	= Total Cov total cover:		m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
9	100 _ = 20% of	total cover:		m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	100 <u> </u>	total cover:		m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
9	100 <u> </u>	total cover:		m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
9	100 <u> </u>	total cover:		m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
9	100 20% of	total cover:		m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
9	100 20% of	total cover:		m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
9	100 <u> </u>	total cover:	20	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
9	100 = 20% of	total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9		total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9		total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9		total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9		total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9		total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9		total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9		total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9		total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9		total cover:	 er	m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

	ription: (Describe	to the depth			or or confirm	the absenc	e of indicato	ors.)	
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	x Features % Type	e ¹ Loc ²	Texture		Remarks	S
0-2	10YR 3/2	100				SiLo			
2-6	10YR 4/3	98	5YR 3/4			SiLo	=		
6-10	10YR 4/3	100	31110/4			SiCLo	_		
0-10	101114/3	100				SICLO	_		
							_		
							_		
							_		
							_		
			_				_		
			_						
1Typo: C-C	oncentration, D=Depl	lotion PM_E	Poducod Matrix MS	——————————————————————————————————————	Grains	² Location:	– PL=Pore Lini	na M-Matri	
Hydric Soil		elion, Kivi=K	teduced Matrix, Mc	3=IVIASKEU SAITU	Giailis.				A. Hydric Soils ³ :
Histosol			Dark Surface	(S7)			2 cm Muck (-
	oipedon (A2)			low Surface (S8)	(MLRA 147,		Coast Prairie		
Black Hi	stic (A3)		Thin Dark Su	ırface (S9) (MLR	A 147, 148)		(MLRA 14	7, 148)	
	n Sulfide (A4)		Loamy Gleye	, ,			Piedmont Flo		ls (F19)
	d Layers (A5)		Depleted Mat				(MLRA 13		(== (0)
	ick (A10) (LRR N) d Below Dark Surface	· (A11)	Redox Dark S	Surface (F6) rk Surface (F7)			Very Shallow Other (Expla		
	ark Surface (A12)	5 (ATT)	Redox Depre	, ,			Otriei (Expia	iii iii iXeiiiaii	N3)
	lucky Mineral (S1) (L	.RR N,		ese Masses (F12	2) (LRR N,				
	A 147, 148)		MLRA 130						
	Bleyed Matrix (S4)			ice (F13) (MLRA					egetation and
	tedox (S5)			oodplain Soils (F			vetland hydro		
	Matrix (S6)		Red Parent N	Material (F21) (M	LRA 127, 147	') u	nless disturb	ed or proble	matic.
	_ayer (if observed):								
Type:	ahaa):		_			Uvdria Ca	il Present?	Yes	No_ 🗸
Remarks:	ches):					nyuric 30	iii Fresent?	162	
Remarks.									

Project/Site: MVP	City/County: Roand	oke	Sampling Date: 08/28/2017		
Applicant/Owner: MVP	, ,				
Investigator(s): E. Foster, K. Pulver, S. Pilch					
Landform (hillslope, terrace, etc.): Slope		_	Slope (%): 5		
Subregion (LRR or MLRA): LRR N			Datum: NAD 83		
Soil Map Unit Name: 42A - Sindion loam, 0 to 2					
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes No	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are	e "Normal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach sit					
Hydrophytic Vegetation Present? Yes	No le the Sample				
, , ,	No Is the Sample within a Wetl		No		
Wetland Hydrology Present? Yes		anu? Tes	NO		
Remarks: Cowardin Code: PSS		r Type: RPWWD			
Abuts groundwater fed intermitter	nt stream.				
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is required; of	check all that apply)	Surface Soil	Cracks (B6)		
Surface Water (A1)	Sparsely Veg	getated Concave Surface (B8)			
High Water Table (A2)					
Saturation (A3)	ots (C3) Moss Trim Li				
Water Marks (B1)		Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils				
Drift Deposits (B3)	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)	and the second s	tressed Plants (D1)		
Iron Deposits (B5)		<u>✓</u> Geomorphic			
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui			
Water-Stained Leaves (B9)		Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)			
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)		
Field Observations: Surface Water Present? Yes No	Depth (inches):				
	Depth (inches):				
		Vetland Hydrology Presen	t? Yes ✔ No		
(includes capillary fringe)			II: 165 NO		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspection	ns), if available:			
Remarks:					
Nemarks.					

Sampling Point: W-I	1195-25	S
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1. Acer rubrum	5		FAC	That Are OBL, FACW, or FAC:6 (A)
2				
3				Total Number of Dominant Species Across All Strata: 6 (B)
1				Species Across All Strata. (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: <u>2.5</u>	20% of	total cover:	1	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Alnus serrulata	20		OBL	FAC species x 3 =
2. Lindera benzoin	15	✓	FAC	FACU species x 4 =
3		-		UPL species x 5 =
				Column Totals: (A) (B)
4				(,
5		-		Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				
	35	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
50% of total cover: <u>17.5</u>	20% of	total cover:	7	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Impatiens capensis	20	/	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Symplocarpus foetidus	15	~	OBL	
3. Lysimachia nummularia	12	~		¹ Indicators of hydric soil and wetland hydrology must
			FACW_	be present, unless disturbed or problematic.
4. Viola blanda	5		FACW_	Definitions of Four Vegetation Strata:
5	-			
6			. <u> </u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8.			· · ·	
9				Sapling/Shrub – Woody plants, excluding vines, less
10.				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				, '
11				Herb – All herbaceous (non-woody) plants, regardless
00		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>26</u>	20% of	total cover:	10.4	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				
5.				Hydrophytic Vegetation
<u> </u>	0	= Total Cov		Present? Yes V No No
50% of total cover: 0		total cover:	_	
		total cover.		
Remarks: (Include photo numbers here or on a separate si	neet.)			
				I

Danth		•	h needed to docun							
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features % 1	Type ¹ I	_oc²	Texture		Remarks	;
0-3	10YR 3/1	100					SiLo			
3-12	10YR 4/2	95	5YR 5/8	5 (C N	//PL	SaLo			
12-20	10YR 4/1	93	7.5YR 5/6			//PL	SaCLo			
12 20	10111 -71		7.0111070		<u> </u>	///	OUOLO			
1- 0.0							2, , 5,			
Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked Sa	and Grains	S	² Location: PL			(. Iydric Soils³:
•			Dark Surface	(07)						-
Histosol	(A1) pipedon (A2)		Dark Surface Polyvalue Be		(S8) (MI 5	Δ 147			A10) (MLRA Redox (A16	
Black His			Tolyvalde Be		. , .			(MLRA 14		,
	n Sulfide (A4)		Loamy Gleye			/	Pi		oodplain Soils	s (F19)
Stratified	Layers (A5)		Depleted Mat	rix (F3)				(MLRA 13	6, 147)	
	ick (A10) (LRR N)		Redox Dark S	, ,					Dark Surfac	
	d Below Dark Surface	∌ (A11)	Depleted Dar		7)		0	ther (Expla	in in Remark	s)
	ark Surface (A12) lucky Mineral (S1) (L	RR N	Redox Depre Iron-Mangane		(F12) (I R I	RN				
	147, 148)	,	MLRA 130		(i iz) (Li t)					
	leyed Matrix (S4)		Umbric Surfa	•	LRA 136, ²	122)	³ Indi	cators of h	ydrophytic ve	egetation and
	edox (S5)		Piedmont Flo						logy must be	
	Matrix (S6)		Red Parent M	laterial (F21)) (MLRA 1	27, 147)	unle	ess disturb	ed or probler	matic.
	_ayer (if observed):									
Type:										
Depth (inc	:hes):						Hydric Soil	Present?	Yes	No
Remarks:										

Wetland Photograph Page

Wetland ID $\underline{\text{W-IJ95-PSS}}$ Date $\underline{\text{08/28/201}}$ 7



Photograph Direction East

Comments:	

Project/Site: MVP	City/County:	Roanoke		Sampling Date: 08/28/2017		
Applicant/Owner: MVP				Sampling Point: W-IJ94-95-UP		
Investigator(s): E. Foster, K. Pulver, S. Pilcher	Section, Toy	nship, Range: N/		_		
Landform (hillslope, terrace, etc.): Slope				Slone (%): 5		
Subregion (LRR or MLRA): LRR N Lat				Datum: NAD 83		
Soil Map Unit Name: 42A - Sindion loam, 0 to 2 pe		_				
Are climatic / hydrologic conditions on the site typical f	•					
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal	Circumstances" p	oresent? Yes No		
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, ex	xplain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach site n	nap showing sampling	point location	ns, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes	No.					
Hydric Soil Present? Yes	No. V	Sampled Area	Vaa	No. 4		
Wetland Hydrology Present? Yes	WILIII	n a Wetland?	res	No		
Remarks: Cowardin Code: UPLAND	HGM:	Water Type:				
		,,				
HYDROLOGY						
Wetland Hydrology Indicators:		:	Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is required; chec	ck all that apply)		Surface Soil			
Surface Water (A1)	True Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on L		Moss Trim Li			
Water Marks (B1)	Presence of Reduced Iron (· · · · · · · · · · · · · · · · · · ·				
Sediment Deposits (B2)		Reduction in Tilled Soils (C6) Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)			Position (D2)		
Inundation Visible on Aerial Imagery (B7)		•	Shallow Aqui			
Water-Stained Leaves (B9)				aphic Relief (D4)		
Aquatic Fauna (B13)		•	FAC-Neutral	` '		
Field Observations:				· ,		
Surface Water Present? Yes No	_ Depth (inches):					
Water Table Present? Yes No	Depth (inches):					
		Wetland H	vdrology Presen	it? Yes No_ 🗸		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous i	nspections), if avail	lable:			
Remarks:						

Troo Stratum (Plot size: 30'	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tiee Stratum (Flot Size)		Species?	Status	Number of Dominant Species
1. Acer rubrum	50		FAC	That Are OBL, FACW, or FAC:1 (A)
2. Pinus strobus	30		<u>FACU</u>	Total Number of Danisant
3				Total Number of Dominant Species Across All Strata:3 (B)
4				Openies / toross / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33.3 (A/B)
6		-		Prevalence Index worksheet:
7				
	80	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 40	20% of	total cover:	16	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species x 3 =
				FACU species x 4 =
2				UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
•		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				i i
1				Problematic Hydrophytic Vegetation ¹ (Explain)
2				
				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				g
•				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	0 .	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover:0	20% of	total cover:	0	
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater than 3.28 ft in
1 Rosa multiflora	15	✓	FACU	height.
·· ·				
2				
3				
4				Hydrophytic
5				Vegetation
	15 ,	= Total Cov	er	Present? Yes No
50% of total cover:7.5		total cover:	_	
		total cover.		1
Remarks: (Include photo numbers here or on a separate s	neet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the in	ndicator	or confirm	the absen	ce of indicat	ors.)		
Depth	Matrix		Redox	x Features	3						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	(S	
0-10	10YR 4/4	100					SiLo				
								_			
¹ Type: C=Co	oncentration, D=Depl	etion. RM=R	educed Matrix. MS	S=Masked	Sand Gra	ins.	² Location:	PL=Pore Lir	ning, M=Mati	ix.	
Hydric Soil			,					licators for F			s ³ :
Histosol			Dark Surface	(S7)				2 cm Muck		-	
	pipedon (A2)		Polyvalue Be		ce (S8) (M	I RA 147	148)	Coast Prairi		•	
Black Hi			Tolyvalde Be				. +0,	(MLRA 1		· • /	
	n Sulfide (A4)		Loamy Gleye	, ,	•	, 170)		Piedmont F		ils (F19)	
	d Layers (A5)		Depleted Mat		2)			(MLRA 1		113 (1 13)	
	ick (A10) (LRR N)		Redox Dark \$		6)			Very Shallo		ace (TF12)	
	d Below Dark Surface	(A11)	Depleted Dar					Other (Expland			
	ark Surface (A12)	(,)	Redox Depre					. ••. (=/,p			
	lucky Mineral (S1) (L	RR N.	Iron-Mangane			RR N.					
	\ 147, 148)	,	MLRA 130		, , (.	,					
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6. 122)	3	Indicators of h	nydrophytic y	vegetation an	ıd
-	ledox (S5)		Piedmont Flo					wetland hydr		-	. ~
	Matrix (S6)		Red Parent M					unless distur			
	_ayer (if observed):				- · , (,	,				
Type: Re											
	ches): 10		_				Hydric S	oil Present?	Yes	No •	/
Remarks:							,				
Nemarks.											

Project/Site: MVP	City/County: Roanoke		Sampling Date: 08/31/2017			
Applicant/Owner: MVP		State: VA	Sampling Point: W-IJ102			
Investigator(s): E. Foster, K. Pulver, S. Pilcher Section, Township, Range: N/A						
Landform (hillslope, terrace, etc.): Floodplain			Slope (%): 0-5			
Subregion (LRR or MLRA): LRR N			Datum: NAD 83			
Soil Map Unit Name: Sindion loam, 0 to 2	2 percent slopes, occasionally floo	ded NWI algoritie	notion: None			
Are climatic / hydrologic conditions on the site typi						
	<u> </u>	- '				
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed	l, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach sit	te map showing sampling point locat	ions, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	_				
Hydric Soil Present? Yes	, Is the Sampled Area	Yes 🗸	No			
Wetland Hydrology Present? Yes	No	100				
Remarks: Cowardin Code: PFO	HGM: Riverine Water Type	: RPWWD				
Floodplain wetland of bottom cre	ek.					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil				
Surface Water (A1)	True Aquatic Plants (B14)	- · · · · · · · · · · · · · · · · · · ·	getated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa				
Saturation (A3)	 Oxidized Rhizospheres on Living Roots (C3 					
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)	· ·	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		Microtopographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutral Test (D5)				
Field Observations:						
	Depth (inches):					
	Depth (inches): 7					
	Depth (inches): 5 Wetland	l Hydrology Preser	nt? Yes <u>/</u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections), if a	vailable:				
, ,						
Remarks:						

VEGETATION (Four Strata) – Use scientific names of plants.

			Sampling Point: W-IJ102
Absolute	Dominant	Indicator	Dominance Test worksheet:
	Species?	Status	Number of Dominant Species
25		FAC	That Are OBL, FACW, or FAC:6 (A)
20		FAC	Total Number of Dominant
			Species Across All Strata: 6 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
			matrice obe, triow, of the
			Prevalence Index worksheet:
45	= Total Cov	er	Total % Cover of: Multiply by:
			OBL species x 1 =
_			FACW species x 2 =
30	~	FAC	FAC species x 3 =
15		FACW	FACU species x 4 =
		1/1011	UPL species x 5 =
			Column Totals: (A) (B)
			Prevalence Index = B/A =
	•		Hydrophytic Vegetation Indicators:
	-		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
45	T		3 - Prevalence Index is ≤3.0 ¹
			4 - Morphological Adaptations ¹ (Provide supporting
_ 20% 01	total cover.		data in Remarks or on a separate sheet)
15	~	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
	-		Tree Mondy plants evaluding vines 2 in (7.6 cm) or
		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
	-		height.
			Sapling/Shrub – Woody plants, excluding vines, less
			than 3 in. DBH and greater than or equal to 3.28 ft (1
	-		m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
69	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
_ 20% of	total cover:	13.8	Woody vine All woody vines greater than 2.29 ft in
			Woody vine – All woody vines greater than 3.28 ft in height.
			Hydrophytic Vegetation
			Hydrophytic Vegetation Present? Yes ✓ No
0 :		_	Vegetation
	45 20% of 30 15 45 20% of 15 20 10 10 7 7	45 = Total Covers 30	20 ✓ FAC 45 = Total Cover 20% of total cover: 9 30 ✓ FAC 15 ✓ FACW 45 = Total Cover 20% of total cover: 9 15 ✓ OBL 20 ✓ FACW 10 FACW 10 FACW 7 OBL 7 FACW

Sampling Point: W-IJ102

SOIL

Depth	cription: (Describe to Matrix	to the dept		ent the Feature		or confirm	the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 3/2	97	7.5YR 5/6	3	С	M/PL	SiLo	
8-16	10YR 4/1	93	7.5YR 4/6	7	С	M/PL	SaLo	
16-20	2.5Y 5/1	99	7.5YR 4/6	1	С	M/PL	Sand	
	-							
					·			
					<u> </u>			
					· ·			
					· ·			
					<u> </u>			
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	=Maske	d Sand G	rains.		L=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		· · · · (CC) (MI DA 447		cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Bel				148) (Coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			147, 140)	F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		,			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S					/ery Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Dar Redox Depre				_ (Other (Explain in Remarks)
	fik Sulface (A12) fucky Mineral (S1) (L	RR N.	Iron-Mangane			(LRR N.		
	A 147, 148)	,	MLRA 136		,	(,		
	Gleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6) Layer (if observed):		Red Parent M	laterial (F	-21) (ML F	RA 127, 147) un	lless disturbed or problematic.
Type:	Layer (II observed).							
Depth (inc	ches):						Hydric Soil	I Present? Yes ✔ No
Remarks:							Tiyane oon	11 103 110
Nemaiks.								



Photograph Direction SW

Comments:			

Project/Site: MVP	City/0	County: Roanoke		Sampling Date: 08/31/2017			
Applicant/Owner: MVP				_ Sampling Point: W-IJ102,IJ03-UP			
Investigator(s): E. Foster, K. Pulver, S.	Pilcher Secti						
Landform (hillslope, terrace, etc.): Slope				Slope (%): 10-15			
Subregion (LRR or MLRA): LRR N	Lat. 37.168066	Long: <u>-80</u>		Datum: NAD 83			
Soil Map Unit Name: Sindion loam, 0	to 2 percent slopes of	occasionally flood	led harmala are				
· · · · · · · · · · · · · · · · · · ·				<u> </u>			
Are climatic / hydrologic conditions on the site				·			
Are Vegetation, Soil, or Hydro	logy significantly distu	rbed? Are "Norma	l Circumstances" p	resent? Yes No			
Are Vegetation, Soil, or Hydro	logy naturally problem	atic? (If needed,	explain any answer	s in Remarks.)			
SUMMARY OF FINDINGS – Attach	n site map showing san	npling point location	ons, transects,	, important features, etc.			
Hydrophytic Vegetation Present? Ye	es No						
	es No	Is the Sampled Area	Vaa	No ✔			
	es No V	within a Wetland?	Yes	_ No			
Remarks: Cowardin Code: UPLAN		Water Type:					
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)			
Primary Indicators (minimum of one is requir	ed: check all that apply)		Surface Soil (
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Pat				
Saturation (A3)			-				
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season V	Vater Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burr	ows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Vis	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or St	ressed Plants (D1)			
Iron Deposits (B5)			Geomorphic I	* *			
Inundation Visible on Aerial Imagery (B7	7)		Shallow Aquitard (D3)				
Water-Stained Leaves (B9)			Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)			
Field Observations:							
Surface Water Present? Yes N	No Depth (inches):						
	No Depth (inches):						
Saturation Present? Yes ! (includes capillary fringe)	No Depth (inches):	Wetland I	Hydrology Present	t? Yes No			
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if ava	ailable:				
Domonko							
Remarks:							
1							

Sampling Point: W-IJ102,IJ03-UP

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Flot Size.		Species?		Number of Dominant Species
1. Pinus strobus	25		<u>FACU</u>	That Are OBL, FACW, or FAC:0 (A)
2. Quercus rubra	25		FACU_	Total Number of Dominant
3				Species Across All Strata:4 (B)
4		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		
50% of total cover: 25	20% of	total cover:	10	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Fagus grandifolia	20		FACU_	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7		-		
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
	20	= Total Cov	er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover:10		total cover:	_	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Polystichum acrostichoides	5	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2				
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Four Vegetation Strata:
6		-		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		-		more in diameter at breast height (DBH), regardless of height.
7				neight.
8	-			Sapling/Shrub – Woody plants, excluding vines, less
9		-		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
11	5	T-1-1-0		Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 2.5		= Total Cov total cover:		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15')	2070 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in
				height.
1		-		
2				
3		-		
4				Hydrophytic
5	0			Vegetation Present? Yes No _✓
50% of total cover: 0		= Total Cov total cover:	_	100 <u> </u>
		total cover.		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Profile Desc	cription: (Describe t	o the dept	n needed to docum	ent the i	ndicator o	or confirm	the absence	of indicate	ors.)		
Depth	Matrix		Redox	Features	3						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	(S	
0-1	10YR 3/2	100					SiLo				
1-8	10YR 4/4	100					SiLo				
			-					-			
					-			-			
¹ Type: C=C	oncentration, D=Depl	etion, RM=I	Reduced Matrix, MS	=Masked	Sand Gra	ins.	² Location: F	L=Pore Lin	ing, M=Matı	ix.	
Hydric Soil		,	,							Hydric Soil	ls³:
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A10) (MLR	A 147)	
	pipedon (A2)		Polyvalue Bel		ce (S8) (M	LRA 147,	148) (Coast Prairie	e Redox (A1	16)	
Black Hi	stic (A3)		Thin Dark Su	face (S9)	(MLRA 1	47, 148)		(MLRA 14	17, 148)		
	en Sulfide (A4)		Loamy Gleye		=2)		F	Piedmont Fl		ils (F19)	
	d Layers (A5)		Depleted Mat					(MLRA 13			
	uck (A10) (LRR N)	(444)	Redox Dark S					ery Shallov			
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Dar Redox Depre				_ (Other (Expla	ıın ın Remai	rks)	
	Mucky Mineral (S1) (L	RR N	Iron-Mangane			RR N					
	A 147, 148)	ixix i x ,	MLRA 136		,3 (1 12) (1	-1111 14,					
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	³ Inc	dicators of h	ydrophytic v	egetation a	nd
	Redox (S5)		Piedmont Flo					etland hydro			
	Matrix (S6)		Red Parent M					nless disturb			
	Layer (if observed):										
Туре: <u>С</u>	parse fragments										
Depth (in	ches): <u>8</u>		<u></u>				Hydric Soi	I Present?	Yes	No [_]	<u> </u>
Remarks:							I.				

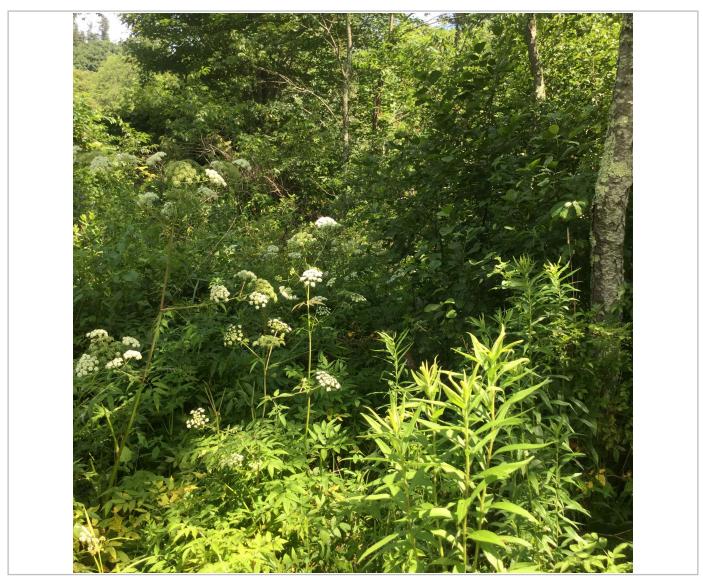
Project/Site: MVP	City/County:	Roanoke	Sampling Date: 07/11/2016			
Applicant/Owner: MVP	VA	Sampling Point: W-KL17				
Investigator(s): J. Cook, A. Mengel, K. Pu	lver Section, Tow					
Landform (hillslope, terrace, etc.): Floodplain			Slone (%)· 3			
Subregion (LRR or MLRA): LRR N			Datum: NAD 83			
Soil Map Unit Name: 1A - Alderflats silt loam,		Long NWI class				
Are climatic / hydrologic conditions on the site tyl	·					
Are Vegetation, Soil, or Hydrolog						
Are Vegetation, Soil, or Hydrolog	y naturally problematic?	(If needed, explain any ans	swers in Remarks.)			
SUMMARY OF FINDINGS – Attach s	ite map showing sampling	point locations, transec	cts, important features, etc.			
Hydrophytic Vegetation Present? Yes	V No Is the					
Hydric Soil Present? Yes	No.	Sampled Area n a Wetland? Yes	✓ No			
Wetland Hydrology Present? Yes	Willin	1 d Welldilu: 165	<u> </u>			
Remarks: Cowardin Code: PSS	HGM: Riverine	Water Type: RPWWD				
0011414111 000	110mi 14.100	114.0. 1,00.14.11112				
HYDROLOGY		On an alamata	" the second second			
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	dicators (minimum of two required)			
Primary Indicators (minimum of one is required			Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)		Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Patterns (B10)			
Saturation (A3)	Oxidized Rhizospheres on L		m Lines (B16)			
Water Marks (B1)Sediment Deposits (B2)	Presence of Reduced Iron (Recent Iron Reduction in Till		Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (C7)		n Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)					
Algar Mat of Crust (B4) Iron Deposits (B5)	Other (Explain in Nomaino,		Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Geomorphic Position (D2) Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		Microtopographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutral Test (D5)				
Field Observations:			· <i>'</i>			
	Depth (inches):					
Water Table Present? Yes No						
	Depth (inches): 10	Wetland Hydrology Pre	sent? Yes 🗸 No			
(includes capillary fringe)			-			
Describe Recorded Data (stream gauge, monit	oring well, aerial priolos, previous ii	ispections), ii avaliable.				
Remarks:						

Sampling	Point:	W-ł	L^{\cdot}	17
Samplinu	r on it.		`	

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiee Stratum (Flot Size)		Species?	<u>Status</u>	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:3 (A)		
2				Total Number of Dominant		
3			. <u></u>	Species Across All Strata:3 (B)		
4						
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)		
6				That Are OBL, FACW, OF FAC.		
7				Prevalence Index worksheet:		
r	0	= Total Cov		Total % Cover of: Multiply by:		
50% of total cover: 0			•	OBL species x 1 =		
Sapling/Shrub Stratum (Plot size: 15')	2070 01	total oover		FACW species x 2 =		
1 Alnus serrulata	25	V	OBL	FAC species x 3 =		
2. Prunus serotina				FACU species x 4 =		
			FACU_			
3				UPL species x 5 =		
4				Column Totals: (A) (B)		
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicators:		
7				1 - Rapid Test for Hydrophytic Vegetation		
8				✓ 2 - Dominance Test is >50%		
9						
	30	= Total Cov	er	3 - Prevalence Index is ≤3.0¹		
50% of total cover:15				4 - Morphological Adaptations ¹ (Provide supporting		
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)		
1. Eupatorium perfoliatum	40	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
2. Symplocarpus foetidus	5		OBL			
3. Scirpus atrovirens	25	~	OBL	¹ Indicators of hydric soil and wetland hydrology must		
4 Impatiens capensis	5		FACW	be present, unless disturbed or problematic.		
5. Solidago gigantea	20		FACW	Definitions of Four Vegetation Strata:		
6. Poa trivilalis	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or		
			FACW	more in diameter at breast height (DBH), regardless of		
7. Juncus effusus	10		FACW_	height.		
8				Sapling/Shrub – Woody plants, excluding vines, less		
9				than 3 in. DBH and greater than or equal to 3.28 ft (1		
10				m) tall.		
11				Herb – All herbaceous (non-woody) plants, regardless		
	110 :	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.		
50% of total cover: 55		total cover		Woody vine – All woody vines greater than 3.28 ft in		
Woody Vine Stratum (Plot size: 15')				height.		
1						
2						
3						
4			· ——	Hydrophytic		
5	0 .		· ——	Vegetation Present? Yes ✔ No		
500/ -fft-l		= Total Cov	_	103 NO		
50% of total cover: 0		total cover				
Remarks: (Include photo numbers here or on a separate s	heet.)					
None						

Sampling Point: W-KL17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redox	K Features	S1	. 2	_		
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	<u>Texture</u>	Remark	KS .
0-5	7.5YR 3/2	97	10YR 5/6	3	С	M/PL	SaC		
5-16	10YR 4/1	95	10YR 6/6	5	С	M/PL	SaC		_
	_		_						_
		 -	<u> </u>		-			-	-
		 -			-	. ———			
¹Type: C=Co	ncentration, D=Deple	etion. RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matı	rix.
Hydric Soil I		, , , , , , , , , , , , , , , , , , ,	toudood mann, me	· · · · · · · · · · · · · · · · · · ·				ators for Problematic	
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLR	A 147)
Histic Ep	ipedon (A2)		Polyvalue Be	low Surfac	ce (S8) (N	ILRA 147,	148) C	Coast Prairie Redox (A1	16)
Black His			Thin Dark Su			47, 148)		(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye		F2)		P	Piedmont Floodplain So	ils (F19)
	Layers (A5) ck (A10) (LRR N)		Depleted Mat Redox Dark S		.6)		V	(MLRA 136, 147) 'ery Shallow Dark Surfa	ace (TF12)
	Below Dark Surface	(A11)	Depleted Dar	•	,			Other (Explain in Remai	
	rk Surface (A12)	,	Redox Depre					\ 1	,
	ucky Mineral (S1) (Li	RR N,	Iron-Mangane		es (F12) (LRR N,			
	147, 148)		MLRA 136	•			3		
	leyed Matrix (S4)		Umbric Surfa					licators of hydrophytic	-
	edox (S5) Matrix (S6)		Piedmont FloRed Parent M					etland hydrology must b less disturbed or proble	-
	ayer (if observed):		Red r architiv	iatoriai (i	21) (IVILIV	A 121, 171	, un	1033 disturbed of proble	cmatic.
Type:	.,								
	hes):		<u> </u>				Hydric Soil	Present? Yes	, No
Remarks:	,								
None									
ı									



Photograph Direction North

Comments:		

Project/Site: MVP	City/County: Roano	ke	_ Sampling Date: 07/11/2016			
Applicant/Owner: MVP		State: VA	Sampling Point: W-KL16/17-UP			
Investigator(s): J. Cook, A. Mengel, K. Pulver Section, Township, Range: N/A						
Landform (hillslope, terrace, etc.): Slope	•		Slope (%): 2			
Subregion (LRR or MLRA): LRR N			Datum: NAD 83			
Soil Map Unit Name: 1A - Alderflats silt loam, 0 to						
Are climatic / hydrologic conditions on the site typic	•		,			
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are	"Normal Circumstances"	'present? Yes No			
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If n	eeded, explain any ansv	vers in Remarks.)			
SUMMARY OF FINDINGS – Attach site	e map showing sampling point	locations, transect	s, important features, etc.			
Hydrophytic Vegetation Present? Yes	No. V					
	No V Is the Sample within a Wetla		No			
	No Within a Wetta	iliu: Tes				
Remarks: Cowardin Code: UPLAND	HGM: Water	Type:				
None	Trace.	. , , , , , , , , , , , , , , , , , , ,				
None						
HYDROLOGY						
Wetland Hydrology Indicators:		·	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; cl			Surface Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	_	Drainage Patterns (B10)			
Saturation (A3) Water Marks (B1)	Oxidized Rhizospheres on Living RocPresence of Reduced Iron (C4)		Moss Trim Lines (B16)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils	· ·	Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Occument Deposits (B2)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stunted or Stressed Plants (D1)			
Iron Deposits (B5)			Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Ac				
Water-Stained Leaves (B9)			Microtopographic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutr	al Test (D5)			
Field Observations:						
	Depth (inches):					
	Depth (inches):					
	Depth (inches): W	etland Hydrology Pres	ent? Yes No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitorii	ng well, aerial photos, previous inspection	s), if available:				
, , ,						
Remarks: None						
Notice						

Sampling Po	oint· W-Kl	_16/17-UP
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30')	% Cover	Species?		Number of Dominant Species
1. Prunus serotina	15	/	FACU	That Are OBL, FACW, or FAC: 1 (A)
2 Sassafras albidum	20	~	FACU	(/,
-			1/100	Total Number of Dominant Species Across All Strata: 8 (B)
3		-		Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 12.5 (A/B)
6				December of the december of
7	-			Prevalence Index worksheet:
	35	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: _ 17.5	20% of	total cover:	7	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Rosa multiflora	10	~	FACU	FAC species x 3 =
2. Rubus allegheniensis	10			FACU species x 4 =
			FACU_	-
3. Sassafras albidum	20		F <u>ACU</u>	' <u> </u>
4				Column Totals: (A) (B)
5	-			Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8		-		2 - Dominance Test is >50%
9	40	-		3 - Prevalence Index is ≤3.0 ¹
20		= Total Cov	_	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 20	20% of	total cover:	8	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				• • • • • • • • • • • • • • • • • • • •
1. Solidago canadensis	70		F <u>ACU</u>	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Andropogon virginicus	20		FACU	
3. Phleum pratense	10		FACU	¹ Indicators of hydric soil and wetland hydrology must
4 Fragaria virginiana	5		FACU	be present, unless disturbed or problematic.
"		-		Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7	-			height.
8.				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.	-	-		m) tall.
10				,
11	105			Herb – All herbaceous (non-woody) plants, regardless
50.5		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover:52.5	20% of	total cover:	21	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1. Lonicera japonica	15		FAC	Ĭ
2. Vitis aestivalis	5	✓	FACU	
3.	-			
4		-		Hydrophytic
5				Vegetation
		= Total Cov		Present? Yes No
50% of total cover:10	20% of	total cover:	4	
Remarks: (Include photo numbers here or on a separate s	heet.)			
None				

Depth Desc	Matrix	aoptii	needed to document the indicator Redox Features			J. J.,	
(inches)	Color (moist)	%	Color (moist) % Type ¹	Loc ² Te	xture	Remarks	
0-12	10 YR 5/3	100			SiL		
					· · · · · · · · · · · · · · · · · · ·		
		etion, RM=Re	educed Matrix, MS=Masked Sand G	rains. ² Loc	ation: PL=Pore Lin		
Hydric Soil I	ndicators:				Indicators for P	_	
Histosol			Dark Surface (S7)			A10) (MLRA 1 4	47)
	pipedon (A2)		Polyvalue Below Surface (S8) (e Redox (A16)	
Black His			Thin Dark Surface (S9) (MLRA	147, 148)	(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)			oodplain Soils (F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		(TE40)
	ick (A10) (LRR N) d Below Dark Surface	. (Δ11)	Redox Dark Surface (F6)Depleted Dark Surface (F7)			v Dark Surface ain in Remarks)	
	ark Surface (A12)	<i>(</i> (Redox Depressions (F8)		Other (Expire	iiii iii ixemarks)	
	lucky Mineral (S1) (L	RR N.	Iron-Manganese Masses (F12)	(LRR N.			
	\ 147, 148)	,	MLRA 136)	(=,			
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 1	36, 122)	³ Indicators of h	ydrophytic veg	etation and
	ledox (S5)		Piedmont Floodplain Soils (F19			ology must be p	
	Matrix (S6)		Red Parent Material (F21) (MLI			ed or problema	
Restrictive L	_ayer (if observed):						
Type: Re	efusal (compaction	n)	_				
Depth (inc	ches): <u>12</u>			Hyd	dric Soil Present?	Yes	No 🗸
Remarks:						<u> </u>	<u> </u>
Vone							

Project/Site: MVP	City/County: Roanok	Се	Sampling Date: 08/01/2016		
Applicant/Owner: MVP	- / /	State: VA	Sampling Point: W-EF42		
Investigator(s): D Hadersbeck K Pulver C S	Sorden Section, Township, Ra	nge: N/A			
Landform (hillslope, terrace, etc.): Slope	Local relief (concave, con	vex, none): Concave	Slope (%): 4-6		
Subregion (LRR or MLRA): LRR N	Lat: 37.157446 Lor	_{ig:} -80.133824	Datum: NAD 83		
Soil Map Unit Name: 17C-Evard fine sandy loam, 7 to	15 percent slopes; 1A-Alderflats silt loam, 0 to 4 pe	ercent slopes NWI classifica	ation: None		
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes No _	(If no, explain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are	"Normal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach sit					
Hydrophytic Vegetation Present? Yes	No la the Semante				
	No.		No		
Wetland Hydrology Present? Yes		na? Yes_ *	NO		
Demantica		Type: RPWWD			
Roadside wetland that drains into creek outs Information listed on this form represents the hydrology, hydrophytic vegetation, and hydri methodology. Additional areas of wetland w	e data collected in 2016. The wetland v c soils was confirmed using the USAC				
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)		
Primary Indicators (minimum of one is required; of	theck all that apply)	Surface Soil (Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Veg	etated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pat	terns (B10)		
Saturation (A3)	Oxidized Rhizospheres on Living Room	· · ·			
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (Crayfish Burrows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)		ressed Plants (D1)		
Iron Deposits (B5)		✓ Geomorphic I Shallow Aquit	, ,		
	Inundation Visible on Aerial Imagery (B7)				
Water-Stained Leaves (B9)Aquatic Fauna (B13)		FAC-Neutral	phic Relief (D4)		
Field Observations:		Y FAC-Neuliai	Test (D5)		
	Depth (inches):				
	Depth (inches):				
	<u> </u>	etland Hydrology Presen	t? Yes ✔ No		
(includes capillary fringe)			1: 165 <u> </u>		
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous inspections	s), if available:			
Remarks:					

Sampling	Point: W-EF42

Trop Strotum (Blot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Deminerat
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				(=/
				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover: 0	20% of	total cover:		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4		·		Column Totals: (A) (B)
5				
				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				
1. Leersia oryzoides	60		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Impatiens capensis	25	✓	FACW	
3. Vernonia noveboracensis	15		FACW	¹ Indicators of hydric soil and wetland hydrology must
4. Carex vulpinoidea	10		OBL	be present, unless disturbed or problematic.
5. Carex lurida	10		OBL	Definitions of Four Vegetation Strata:
6. Amphicarpea bracteata	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
	5		FAC	more in diameter at breast height (DBH), regardless of
7. Cyperus esculentus			FACW_	height.
8. Junius effusus	5		FACW_	Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	135	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>67.</u> 5				
Woody Vine Stratum (Plot size: 15')	<u></u>			Woody vine – All woody vines greater than 3.28 ft in
,				height.
1				
3		-		
4		-		Hydrophytic
5				Vegetation
		= Total Cov	_	Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			-

Sampling Point: W-EF42

SOIL

Depth	cription: (Describe to Matrix	o the dept		x Features		i the absence	or indicate	,,,	
(inches)	Color (moist)	%	Color (moist)	%Ty	pe ¹ Loc ²	<u>Texture</u>	-	Remarks	
0-8	10YR 4/1	85	7.5YR 5/6	15C	M/PL	SICL			
8-16	7.5YR 6/1	90	7.5YR 5/8	<u>10</u> <u>C</u>	M/PL	CL			
									
	·								
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked San	d Grains.	² Location: PL	_=Pore Lini	ng, M=Matrix.	
ydric Soil	Indicators:					Indica	itors for Pr	oblematic Hy	dric Soils ³ :
_ Histosol			Dark Surface				•	A10) (MLRA 1 4	47)
	pipedon (A2)				8) (MLRA 147 ,	148) C		Redox (A16)	
_ Black Hi	stic (A3) en Sulfide (A4)			rface (S9) (ML d Matrix (F2)	RA 147, 148)	D:	MLRA 14		(E40)
	d Layers (A5)		Depleted Ma			Pi	MLRA 13)	odplain Soils (6 147)	(F19)
	ick (A10) (LRR N)		Redox Dark			Ve		Dark Surface	(TF12)
	d Below Dark Surface	e (A11)		k Surface (F7)			•	in in Remarks)	. ,
	ark Surface (A12)		Redox Depre						
	Mucky Mineral (S1) (L	.RR N,		ese Masses (F	12) (LRR N,				
	A 147, 148)		MLRA 13	•	A 400 400\	31:			
	Gleyed Matrix (S4) Redox (S5)			ce (F13) (MLR	F19) (MLRA 1 4			drophytic veg logy must be p	
	Matrix (S6)				MLRA 127, 147		-	ed or problema	
	Layer (if observed):				,	1			
Type:									
Depth (in	ches):					Hydric Soil	Present?	Yes 🗸	No
emarks:						-			

Photograph Page

Wetland ID W-EF42 Cowardin Code PEM Date 08/01/2016



Photograph Number __1___

Photograph Direction North

Comments: 2016 wetland delineation on 8/1/2016.



Photograph Number 2

Photograph Direction SSW

Comments: 2019 revisit delineation on 8/14/2019.

Project/Site: MVP		City/C	county: Roanoke		Sampling Date: 08/01/2016
Applicant/Owner: MVP			· _		Sampling Point: W-EF42-UI
Investigator(s): D Hadersbeck K I	Pulver C Sor	den _{Sectio}	on, Township, Range: N/		
Landform (hillslope, terrace, etc.): Sl					Slope (%): 4-6
Subregion (LRR or MLRA): LRR N					Datum: NAD 83
Soil Map Unit Name: 17C-Evard fine sar					
•					·
Are climatic / hydrologic conditions on					
Are Vegetation, Soil, o				Circumstances"	present? Yes No
Are Vegetation, Soil, o	r Hydrology	naturally problema	atic? (If needed, e	explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS -	Attach site m	nap showing sam	npling point locatio	ns, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes	No 🗸			
Hydric Soil Present?	Yes		Is the Sampled Area within a Wetland?	Vos	No 🗸
Wetland Hydrology Present?		No	Within a Welland?	165	NO
Remarks: Cowardin Code: U			Water Type:		
Jowaidiii Jodg. J	PLAND	l IGIVI.	water Type.		
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one	s required; chec	k all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (<u> </u>		getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pa	
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bur	rows (C8)
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic	Position (D2)
Inundation Visible on Aerial Imag	gery (B7)			Shallow Aqu	iitard (D3)
Water-Stained Leaves (B9)					aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	I Test (D5)
Field Observations:					
Surface Water Present? Yes_	No	Depth (inches):			
	_	Depth (inches):			
Saturation Present? Yes _ (includes capillary fringe)	No	Depth (inches):	Wetland H	lydrology Presei	nt? Yes No
Describe Recorded Data (stream gai	uge, monitoring v	well, aerial photos, pre	vious inspections), if ava	ilable:	
, ,			•		
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: W-EF42-UP

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiee Stratum (Flot Size.	% Cover			Number of Dominant Species	4	
1				That Are OBL, FACW, or FAC:	1	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	50	(A/B)
6						` ,
7				Prevalence Index worksheet:		
	0 .	= Total Cov	ver	Total % Cover of:	Multiply by:	
50% of total cover:0	20% of	total cover	: <u> </u>	OBL species x	1 =	_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x	2 =	_
1				FAC species x	3 =	_
2				FACU species x	4 =	_
3				UPL species x	5 =	_
				Column Totals: (A		
4					,	_ ` '
5				Prevalence Index = B/A =		_
6				Hydrophytic Vegetation Indica	tors:	
7				1 - Rapid Test for Hydrophyt	tic Vegetation	
8				2 - Dominance Test is >50%)	
9				3 - Prevalence Index is ≤3.0	1	
2		= Total Cov		4 - Morphological Adaptation	ns¹ (Provide sup	portina
	20% of	total cover	:0	data in Remarks or on a s		,
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Ve	• • • • • • • • • • • • • • • • • • • •	in)
1. Solidago altissima	60		F <u>ACU</u>	1 Toblematic Trydrophytic vet	getation (Expla	"''
2. Dichanthelium clandestinum	35		F <u>AC</u>	11 office to an of bootes and an element	la a di baadaa la saa	
3. Holcus lanatus	10		FAC	¹ Indicators of hydric soil and wetl be present, unless disturbed or p		nust
4				Definitions of Four Vegetation		
5				Deminions of Four Vegetation	Otrata.	
6				Tree – Woody plants, excluding		
7				more in diameter at breast heigh height.	t (DBH), regardi	less of
8				noight.		
				Sapling/Shrub – Woody plants,		
9				than 3 in. DBH and greater than m) tall.	or equal to 3.28	3 ft (1
10				m, tan.		
11	105			Herb – All herbaceous (non-woo		rdless
50% of total cover: _ 52.5		= Total Cov		of size, and woody plants less th	an 3.28 ft tall.	
	<u>20%</u> 01	total cover	:	Woody vine - All woody vines g	reater than 3.28	3 ft in
Woody Vine Stratum (Plot size: 15')				height.		
1						
2		-				
3						
4				Hydrophytic		
5				Vegetation		
	0	= Total Cov	ver	Present? Yes	No V	
50% of total cover:0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)			-		

Depth (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remainder Color (moist) % SIL Restrictive - color (moist) Remainder Color (moist) Restrictive - color (moist) Remainder Color (moist) Restrictive - color (moist) Restrictive - color (moist) Restrictive - color (moist) Remainder Color (moist) Restrictive - color (moist) Re	arks
0-12 10yr 3/2 100 SIL Restrictive - cr	
	oarse fragments
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix Soil Indicators: Indicators for Problemat	
	•
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (ML Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A10) (MLRA 147, 148)	
 Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A2) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148) 	A16)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain S	Soile (F19)
Stratified Layers (A5) Depleted Matrix (F3) (MLRA 136, 147)	30li3 (1 13)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Su	rface (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Rem	
Thick Dark Surface (A12) Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148) MLRA 136)	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology mus	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or pro	blematic.
Restrictive Layer (if observed):	
Type: Coarse fragments	,
Depth (inches): 12 Hydric Soil Present? Yes	No
Remarks:	
namans.	
remains.	
relians.	
NGIIIain5.	
NGIIIAINS.	
relians.	
IVEILIGINS.	
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INCELLIGITAS.	
INCELLIGITAS.	
INCRITIGING.	
TREITIANS.	
TREMIDING.	
TRETITIONS.	
TRETTICINO.	
INCHIGINS.	

Project/Site: MVP	City/County	/: Roanoke	Sampling Date: 08/14/19		
Applicant/Owner: MVP	State: VA Sam				
• •	Section, To				
Landform (hillslope, terrace, etc.): Depression		oncave, convex, none): Concav	e Slope (%): 3-5		
Subregion (LRR or MLRA): LRRN	2564 1616 (60	Long: -80.133464			
Soil Map Unit Name: 17C - Evard fine sandy	loam, 7 to 15 percent slopes				
Are climatic / hydrologic conditions on the site t					
Are Vegetation, Soil, or Hydrold		Are "Normal Circumstance	s" present? Yes No		
Are Vegetation, Soil, or Hydrold	gy naturally problematic?	(If needed, explain any ans	swers in Remarks.)		
SUMMARY OF FINDINGS – Attach	site map showing samplir	g point locations, transe	cts, important features, etc.		
Hydrophytic Vegetation Present? Yes	<u>✓ No</u>				
Hydric Soil Present? Yes	1 No.	ne Sampled Area nin a Wetland? Yes	√ No		
Wetland Hydrology Present? Yes	WILI	iin a wetiand?	<u> </u>		
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: RPWWD			
Depressional slope wetland in	•	Trate: Type: Itt VVVD			
Depressional slope wettand in	carry successional neid				
HYDROLOGY					
Wetland Hydrology Indicators:	de de de alle III (la de anna la A	· · · · · · · · · · · · · · · · · · ·	dicators (minimum of two required)		
Primary Indicators (minimum of one is require			Soil Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)		Vegetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (COxidized Rhizospheres on		Patterns (B10)		
Saturation (A3)	Oxidized Knizospheres on Presence of Reduced Iron		n Lines (B16) on Water Table (C2)		
Water Marks (B1) Sediment Deposits (B2)	Recent Iron Reduction in 1		Burrows (C8)		
Orift Deposits (B3)	Thin Muck Surface (C7)		n Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks		or Stressed Plants (D1)		
Iron Deposits (B5)	<u> </u>	_	hic Position (D2)		
Inundation Visible on Aerial Imagery (B7)			Aquitard (D3)		
Water-Stained Leaves (B9)			ographic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neu			
Field Observations:					
Surface Water Present? Yes N	Depth (inches):	_			
	Depth (inches): 16	_			
	Depth (inches): 0	Wetland Hydrology Pre	sent? Yes V No No		
(includes capillary fringe)		- Company of a contract to			
Describe Recorded Data (stream gauge, mon	toring well, aerial photos, previous	inspections), if available:			
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling	Point:	W-HS02

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:	
Tiec otratum (Flot size.	% Cover			Number of Dominant Species	44.5
1				That Are OBL, FACW, or FAC: 1	(A)
2			· ——	Total Number of Dominant	
3				Species Across All Strata: 1	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100	0 (A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply	, by:
•		= Total Cov		OBL species x 1 =	
50% of total cover: 0	20% of	total cover	. 0		
<u>Japinig/Ornab Otratam</u> (1 lot size				FACW species x 2 = FAC species x 3 =	
1				FACU species x 4 =	
2					
3				UPL species x 5 =	
4				Column Totals: (A)	(B)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegeta	ation
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 ¹	
		= Total Cov		4 - Morphological Adaptations ¹ (Providence	de supporting
50% of total cover: 0	20% of	total cover	. 0	data in Remarks or on a separate	
Herb Stratum (Plot size: 5'				Problematic Hydrophytic Vegetation ¹	,
1. Leersia oryzoides	70		OBL	Froblematic Hydrophytic Vegetation	(Explain)
2. Verbena hastata	5		FACW	1 Indicators of hydric call and watland hydr	alamı must
3. Impatiens capensis	2		FACW	¹ Indicators of hydric soil and wetland hydrobe present, unless disturbed or problemat	
4. Persicaria saggittata	5		OBL	Definitions of Four Vegetation Strata:	
5. Carex Iurida	2		OBL		
6. Juncus effusus	2		FACW	Tree – Woody plants, excluding vines, 3 in more in diameter at breast height (DBH), r	
7. Vernonia noveboracensis	10		FACW	height.	egardiess of
8. Holcus lanatus	4		FAC		
9				Sapling/Shrub – Woody plants, excluding than 3 in. DBH and greater than or equal t	y vines, less
10				m) tall.	0 0.20 11 (1
11.				Harb All barbassas (non woods) plants	a regardless
	100	= Total Cov	er er	Herb – All herbaceous (non-woody) plants of size, and woody plants less than 3.28 ft	
50% of total cover:50	20% of	total cover	20		
Woody Vine Stratum (Plot size: 15')				Woody vine – All woody vines greater that height.	ın 3.28 ft in
1				noight.	
2					
3					
4					
5.				Hydrophytic Vegetation	
	^	= Total Cov	er	Present? Yes V No	
50% of total cover: 0		total cover	_		
Remarks: (Include photo numbers here or on a separate s					
Transact (market prioto namboro no or or a coparato o	,				

Sampling Point: W-HS02

SOIL

Profile Desc	cription: (Describe to	o the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	k Features	<u> </u>		_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-9	10YR 4/1	95	7.YR 4/6	5	С	<u>M</u>	CL	
9-16	10YR 4/1	90	7.5YR 4/6	10_	С	M/PL	CL	
1Type: C-C	oncentration, D=Deple	etion RM-F	Peduced Matrix MS		Sand Gr	ains	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		elion, Kivi=r	Reduced Matrix, Mc	=iviaskeu	Sand Gi	airis.		ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ce (S8) (N	/ILRA 147,		coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				-, <u>—</u>	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye				P	iedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
	ıck (A10) (LRR N)		Redox Dark S	•	,			ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar				<u> </u>	other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre Iron-Mangane			I DD N		
	/lucky Mineral (S1) (L l \ 147, 148)	KK N,	MLRA 136		55 (F12) (LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	36, 122)	³ Ind	icators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):		<u> </u>				Hydric Soil	Present? Yes V No No
Remarks:							I.	



Photograph Direction SE

Comments:	

Project/Site: MVP	City/County: Roanok	ке	Sampling Date: 08/14/19		
Applicant/Owner: MVP		State: VA	Sampling Point: W-HS02-UP		
Investigator(s): HBS, HM, JL	Section, Township, Ra	inge: N/A			
Landform (hillslope, terrace, etc.): Hillslope			Slope (%): 3-5		
Subregion (LRR or MLRA): LRRN			Datum: NAD 83		
Soil Map Unit Name: 17C - Evard fine sandy					
	_				
Are climatic / hydrologic conditions on the site ty			·		
Are Vegetation, Soil, or Hydrolo		"Normal Circumstances	" present? Yes No		
Are Vegetation, Soil, or Hydrolo	gy naturally problematic? (If ne	eeded, explain any ansv	vers in Remarks.)		
SUMMARY OF FINDINGS – Attach	site map showing sampling point l	ocations, transec	ts, important features, etc.		
Hydrophytic Vegetation Present? Yes	No V Is the Samples	_			
	No V		No		
Wetland Hydrology Present? Yes	within a Wetlan	nd? res	NO		
Remarks: Cowardin Code: UPLAND		Tyna			
COWAIGIII COGE. OF LAIND	ridivi.	Type.			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)		
Primary Indicators (minimum of one is required	d; check all that apply)	Surface So	oil Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely V	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Patterns (B10)		
Saturation (A3)	Oxidized Rhizospheres on Living Root	ts (C3) Moss Trim	Lines (B16)		
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Seaso	n Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6) Crayfish B	Crayfish Burrows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation	Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or	Stressed Plants (D1)		
Iron Deposits (B5)			ic Position (D2)		
Inundation Visible on Aerial Imagery (B7)			quitard (D3)		
Water-Stained Leaves (B9)			graphic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutr	al Test (D5)		
Field Observations: Surface Water Present? Yes No.	Porth (inches)				
Surface water Present? Yes No.	Depth (inches): Depth (inches):				
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): We	etland Hydrology Pres	ent? Yes No		
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspections	s), if available:			
Remarks:					
No hydrology					
Tio Hydrology					

Sampling	Point: W-HS02-UPL
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Troo Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Flot Size)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata:3 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:33 (A/B)
6				That Are OBE, FACW, OF FAC.
7				Prevalence Index worksheet:
·· <u> </u>	0	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 0	20% of			OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	2070 01	total cover		FACW species x 2 =
1. Rubus allegheniensis	5	~	FACU	FAC species x 3 =
			1 400	FACU species x 4 =
2				
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
J	5	= Total Cov	or	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 2.5				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	2070 01	total oover		data in Remarks or on a separate sheet)
1. Solidago canadenis	40	/	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Poa trivialis	10		FACW	
	15			¹ Indicators of hydric soil and wetland hydrology must
3. Agrimonia parviflora			FACW_	be present, unless disturbed or problematic.
4. Holcus lanatus	5		FAC	Definitions of Four Vegetation Strata:
5. Asclepias purpurascens	2		FACU	- W
6. Verbena hastata	5		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Daucus carota	5		UPL	height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				
· · · · · · · · · · · · · · · · · · ·	82	T-1-1 O-1		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 41		= Total Cov total cover		or size, and woody plants less than 3.26 it tall.
	20% 01	total cover	10.4	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0 :	= Total Cov	er	Present? Yes No
50% of total cover:0	20% of	total cover	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		needed to document the indicator of Redox Features				
(inches)	Color (moist)	%	Color (moist) % Type ¹		ture	Remarks	
0-14	10YR 4/2	100			SiL		
	•	· 					
	-	· — — —			· · · · · · · · · · · · · · · · · · ·		
	•	· 					
		· <u></u>			<u> </u>		
		· —— —					
Type: C=Co	oncentration, D=Dep	letion, RM=Re	educed Matrix, MS=Masked Sand Grai	ns. ² Loca	tion: PL=Pore Lin	ing, M=Matrix.	
Hydric Soil I	ndicators:				Indicators for P		
Histosol	(A1)		Dark Surface (S7)		2 cm Muck (A10) (MLRA 1	47)
	pipedon (A2)		Polyvalue Below Surface (S8) (ML	RA 147, 148)		e Redox (A16)	
Black His			Thin Dark Surface (S9) (MLRA 14	7, 148)	(MLRA 14		
Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Flo	oodplain Soils	(F19)
Stratified	Layers (A5)		Depleted Matrix (F3)		(MLRA 13	36, 147)	
2 cm Mu	ck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallov	v Dark Surface	e (TF12)
Depleted	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		Other (Expla	in in Remarks)
	rk Surface (A12)		Redox Depressions (F8)				
	lucky Mineral (S1) (L	.RR N,	Iron-Manganese Masses (F12) (L	RR N,			
	\ 147, 148)		MLRA 136)				
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136		³ Indicators of h		
	edox (S5)		Piedmont Floodplain Soils (F19) (I			ology must be I	
	Matrix (S6)		Red Parent Material (F21) (MLRA	127, 147)	unless disturb	ed or problem	atic.
Restrictive L	ayer (if observed):						
Type:			<u> </u>				
Depth (inc	ches):		_	Hyd	ric Soil Present?	Yes	No 🔽
Remarks:							

Project/Site: MVP		City/C	_{County:} Roanoke		Sampling Date: 06/15/2016
Applicant/Owner: MVP				State: VA	Sampling Point: W-AB6 PEM 2
Investigator(s): J.McGuirk, J.Bittner, C	C.Weimen				
Landform (hillslope, terrace, etc.): Hillslop			· · · · · -		Slope (%): 3-5
Subregion (LRR or MLRA): LRR N					Datum: NAD 83
Soil Map Unit Name: Alderflats silt loam, (
•			· • • · · ·		
Are climatic / hydrologic conditions on the s		*			
Are Vegetation, Soil, or Hyd	rology	significantly distur	bed? Are "Norm	al Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hyd	rology	naturally problem	atic? (If needed	, explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS – Attack	ch site m	ap showing san	npling point locat	ions, transects	, important features, etc.
Hydrophytic Vogototion Procent?	Yes 🗸	No			
	Yes 🔽		Is the Sampled Area		
Wetland Hydrology Present?	Yes 🗸	No No	within a Wetland?	Yes	No
Remarks: Cowardin Code: PEM		HGM: Slope	Water Type	. DD/\/\\/D	
Containain Codo, Elvi		Trom Giopo		······································	
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is req	uired; check	all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants	(B14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pat	tterns (B10)
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)		
Water Marks (B1)		Presence of Reduce	` '		Water Table (C2)
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Burr	
Drift Deposits (B3)		Thin Muck Surface (0			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rei	marks)		tressed Plants (D1)
Iron Deposits (B5)	(DZ)			Geomorphic	
Inundation Visible on Aerial Imagery (В7)			Shallow Aqui Microtopogra	· · · ·
Water-Stained Leaves (B9)Aquatic Fauna (B13)				FAC-Neutral	
Field Observations:				- 1 AC-Neuliai	Test (D3)
	No 🗸	Depth (inches):			
		Depth (inches):			
		Depth (inches):		l Hydrology Presen	it? Yes ✔ No
(includes capillary fringe)					
Describe Recorded Data (stream gauge, r	nonitoring w	ell, aerial photos, pre	evious inspections), if av	vailable:	
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants.

, ,	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species _
1. Fraxinus pennsylvanica	5		FACW	That Are OBL, FACW, or FAC:5 (A)
2.				
3			·	Total Number of Dominant Species Across All Strata: 6 (B)
				Operics Across Air Strata.
4				Percent of Dominant Species That Are OBL FACW or FAC: 83.3% (A/B)
5				That Are OBL, FACW, or FAC: 83.3% (A/B)
6				Prevalence Index worksheet:
1	5			Total % Cover of: Multiply by:
50% - (1-1-1-)		= Total Cov		OBL species x 1 =
50% of total cover: 2.5	20% of	total cover	: <u>'</u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')	15		E 4 0) 4 /	
1. Cornus amomum	15		FACW_	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Dravelence Index D/A
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9.				✓ 2 - Dominance Test is >50%
5	15	= Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 7.5		total cover	_	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	20 /0 01	total cover		data in Remarks or on a separate sheet)
1. Solidago altissima	30	~	EACH.	Problematic Hydrophytic Vegetation ¹ (Explain)
	15		FACU	
2. Agrimonia parviflora			FACW_	¹ Indicators of hydric soil and wetland hydrology must
3. Holcus lanatus	15		F <u>AC</u>	be present, unless disturbed or problematic.
4. Toxicodendron radicans	15		FAC	Definitions of Four Vegetation Strata:
5. Symplocarpus foetidus	10		OBL	
6. Juncus effusus	10		FACW_	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Impatiens capensis	5		FACW_	height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
				, '
11	100	= Total Cov		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50		total cover		of size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 15')	20 /6 01	lotal cover		Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cov	/er	Present? Yes V No No
50% of total cover:0	20% of	total cover	:0	
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Profile Desc	ription: (Describe to	o the depth	n needed to docum	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo:	x Features	S T 1	12	T	December
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks
1-12	7.5YR 4/1	90	7.5YR 5/6	10	С	M/PL	CL	
						·		
								-
	_		_					
						·		
					-			
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indic	eators for Problematic Hydric Soils ³ :
Histosol			Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) (Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)	_	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)		[[]	Piedmont Floodplain Soils (F19)
	d Layers (A5) ick (A10) (LRR N)		Depleted MarRedox Dark S		(C)		,	(MLRA 136, 147) √ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	•	,			Other (Explain in Remarks)
	ark Surface (A12)	(/ () /)	Redox Depre				`	Surer (Explain in Hemaine)
	lucky Mineral (S1) (L l	RR N,	Iron-Mangan			LRR N,		
	A 147, 148)		MLRA 13		` '			
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	tedox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	<u>')</u> ur	nless disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type:			<u>—</u>					4
Depth (in	ches):						Hydric Soi	I Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID $\underline{\text{W-AB6 PEM}}_{\text{Date}} \underline{\text{06/15/2016}}$



Photograph Direction West

Comments:		

Project/Site: MVP		City/C	county: Roanoke		Sampling Date: 06/15/2016	
Applicant/Owner: MVP				State: VA	Sampling Point: W-AB6 PFO	
Investigator(s): J.McGuirk, J.Bittner, C.Weimen Section, Township, Range: N/A						
Landform (hillslope, terrace, etc.): Hill					Slope (%): 0-3	
Subregion (LRR or MLRA): LRR N						
Soil Map Unit Name: Alderflats silt loa			Long			
•						
Are climatic / hydrologic conditions on the	7.7					
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Norma	al Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or	Hydrology	naturally problema	atic? (If needed,	explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – A	ttach site m	ap showing san	npling point location	ons, transects	, important features, etc.	
Hydrophytia Vagatatian Bragant?	Yes _ 🗸	No				
Hydrophytic Vegetation Present? Hydric Soil Present?		No	Is the Sampled Area	4		
Wetland Hydrology Present?	Yes V	No No	within a Wetland?	Yes	No	
Remarks: Cowardin Code: PF		HGM: Slope	Water Type:	DDIAMAD		
HYDROLOGY						
Wetland Hydrology Indicators:				·	tors (minimum of two required)	
Primary Indicators (minimum of one is	•			Surface Soil Cracks (B6)		
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Od	or (C1) es on Living Roots (C3)	✓ Drainage Pat		
Saturation (A3) Water Marks (B1)		Presence of Reduced	= : :	Moss Trim Li Dry-Season \		
Sediment Deposits (B2)	·	Recent Iron Reduction	, ,	Crayfish Burr		
Drift Deposits (B3)		Thin Muck Surface (0		•	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Rer			ressed Plants (D1)	
Iron Deposits (B5)	_	` '	,	C Geomorphic		
Inundation Visible on Aerial Image	ery (B7)			Shallow Aqui	tard (D3)	
Water-Stained Leaves (B9)				Microtopogra	phic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations:						
Surface Water Present? Yes	No	Depth (inches):				
		Depth (inches):			_	
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland	Hydrology Presen	t? Yes No	
Describe Recorded Data (stream gaug	je, monitoring w	vell, aerial photos, pre	vious inspections), if ava	ailable:		
Remarks:						

Sampling Point: W-AB6 PFO 7	Sampling	Point:	W-	AB6	PFC) 1
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Troo Stratum (Blat size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Fiot Size)		Species?		Number of Dominant Species
1. Pinus strobus	40		<u>FACU</u>	That Are OBL, FACW, or FAC:4 (A)
2. Acer rubrum	40		FAC	Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				(2)
		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:80 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		
50% of total cover: 40	20% of	total cover	: <u>16</u>	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Acer rubrum	30	✓	FAC	FAC species x 3 =
2. Rosa multiflora	5	-	FACU	FACU species x 4 =
		-	r <u>ACU</u>	UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8		-		2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:17.5	20% of	total cover	<u>. 7</u>	
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Toxicodendron radicans	40	~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Solidago gigantea	30		FACW	
	10			¹ Indicators of hydric soil and wetland hydrology must
3. Potentilla indica		-	FACU_	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8		-		Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	80	= Total Cov	/er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40		total cover		
Woody Vine Stratum (Plot size: 15')		10101 00101		Woody vine – All woody vines greater than 3.28 ft in
· · · · · · · · · · · · · · · · · · ·				height.
1				
2				
3				
4				the decoder of a
5.				Hydrophytic Vegetation
<u> </u>	0	= Total Cov		Present? Yes V No
50% of total cover: 0		total cover	_	
		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	o the dept				or confirm	the absence	e of indicators.)
Depth (inches)	Matrix	<u></u> %	Redo	x Features	T 1	Loc ²	T	Dama artica
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹		<u>Texture</u>	Remarks
8	2.5Y 5/2	85	10YR 5/6	15_	<u>C</u>	M/PL	SiL	
8-16	2.5Y 5/4	100					SiL	
					-		-	
-								
					-			
					-		-	
1Tupo: C-C	oncentration, D=Depl	otion DM-	Poducod Motrix MS	 C-Maakad	Sand Cr		² Location: D	PL=Pore Lining, M=Matrix.
Hydric Soil		ellon, Rivi=	Reduced Matrix, Mis	5=iviaskeu	Sand Gr	airis.		ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147.		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye				F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma					(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		•			/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar				_ (Other (Explain in Remarks)
	ark Surface (A12) ⁄lucky Mineral (S1) (L	RR N	Redox Depre			IRRN		
	A 147, 148)	,	MLRA 13		,3 (1 12) (LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	³ Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	') ur	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:			<u>—</u>					4
Depth (in	ches):						Hydric Soi	I Present? Yes No
Remarks:								

Wetland Photograph Page

Wetland ID $\underline{\text{W-AB6 PFO}}$ Date $\underline{\text{06/15/201}}$ 6



Photograph Direction West

Comments:			

Project/Site: MVP		City/C	county: Roanoke		Sampling Date: 06/15/2016
Applicant/Owner: MVP			,	State: VA	Sampling Point: W-AB6 PEM
Investigator(s): J.McGuirk, J.Bittne	er, C.Weimer) Section	on Township Range N		
Landform (hillslope, terrace, etc.): Hill					Slone (%): 3-5
Subregion (LRR or MLRA): LRR N					Datum: NAD 83
Soil Map Unit Name: Edneyville fine s					
Are climatic / hydrologic conditions on t		· ·			
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Norma	al Circumstances" p	resent? Yes No
Are Vegetation, Soil, or	Hydrology	naturally problemate	atic? (If needed,	explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - A	ttach site m	ap showing san	npling point location	ons, transects	, important features, etc.
Hudronhutia Vagatation Brosont?	Yes 🗸	_ No			
Hydrophytic Vegetation Present? Hydric Soil Present?		No	Is the Sampled Area	4	
Wetland Hydrology Present?	Yes V	No	within a Wetland?	Yes	No
Remarks: Cowardin Code: PE		HGM: Slope	Water Type:	DDIAMAD	
HYDROLOGY					
Wetland Hydrology Indicators:					tors (minimum of two required)
Primary Indicators (minimum of one is	•			Surface Soil	
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pat	
Saturation (A3)		Presence of Reduced	es on Living Roots (C3)	Moss Trim Li Dry-Season \	
Water Marks (B1) Sediment Deposits (B2)		Recent Iron Reduction	` '	Crayfish Burr	
Drift Deposits (B3)		Thin Muck Surface (•	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer			ressed Plants (D1)
Iron Deposits (B5)		()	,	✓ Geomorphic	
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aqui	
Water-Stained Leaves (B9)				✓ Microtopogra	. ,
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present? Yes _	No	Depth (inches):			
		Depth (inches):			
Saturation Present? Yes _ (includes capillary fringe)	No	Depth (inches):	Wetland	Hydrology Presen	t? Yes <u> </u>
Describe Recorded Data (stream gau	ge, monitoring v	vell, aerial photos, pre	evious inspections), if av	ailable:	
Remarks:					

Sampling Point, AA-VDO I FIA	_{t:} W-AB6 PEM1	Sampling Point
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Pinus strobus	5	✓	UPL	That Are OBL, FACW, or FAC: 5 (A)
2		-		(/,
				Total Number of Dominant Species Across All Strata: 7 (B)
3		-		Species Across All Strata: (B)
4		-		Percent of Dominant Species
5		-		That Are OBL, FACW, or FAC: 71% (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: <u>2.5</u>	20% of	total cover:	1	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15'				FACW species x 2 =
1. Elaeagnus umbellata	5	✓	UPL	FAC species x 3 =
2. Acer rubrum	5	V	FAC	FACU species x 4 =
3		-	. 7.0	UPL species x 5 =
				Column Totals: (A) (B)
4				(2)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				
	10	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
50% of total cover:5		total cover:		4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Leersia oryzoides	35	/	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Juncus effusus	20	~	FACW	
3. Carex lurida	15			¹ Indicators of hydric soil and wetland hydrology must
			OBL	be present, unless disturbed or problematic.
4. Solidago gigantea	15		F <u>ACW</u>	Definitions of Four Vegetation Strata:
5. Juncus tenuis	10		F <u>AC</u>	Too Manharlanta mahallanaina 0 in (7.0 an) an
6. Holcus lanatus	10		F <u>AC</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Glyceria striata	7		<u>OBL</u>	height.
8. Toxicodendron radicans	7		FAC	
g. Carex scoparia	5		FACW	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10. Carex vulpinoidea	5		OBL	m) tall.
11. Agrimonia parviflora			FACW	
11.71gmmonia parvinora	12/			Herb – All herbaceous (non-woody) plants, regardless
500/ //		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 67	20% of	total cover:	20.0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15)				height.
1				
2				
3				
4				Hadran bad's
5				Hydrophytic Vegetation
	0	= Total Cov	er	Present? Yes V No No
50% of total cover: 0		total cover:	_	
Remarks: (Include photo numbers here or on a separate si				
remarks. (include prioto numbers here or on a separate si	11 00 1.)			

Profile Desc	ription: (Describe to	o the depth	needed to docum	nent the in	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	K Features	31	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-12	7.5YR 4/1	85	7.5YR 4/6	15_	С	M/PL	SiL	
12-16	7.5YR 4/1	80	7.5YR 4/6	20_	С	M/PL	CL	
			_		'	· <u></u>		
								
¹ Type: C=C	oncentration, D=Deple	etion. RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		340H, 14W=1	toddood Matrix, Me		Carra Cr	uo.		ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Bel		ce (S8) (N	ILRA 147,		Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		P	riedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)	(8.4.4)	Redox Dark S					ery Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Dar Redox Depre		. ,		_ 0	Other (Explain in Remarks)
	fik Sunace (A12) lucky Mineral (S1) (L l	RR N	Iron-Mangane			I RR N		
	147, 148)	,	MLRA 136) (i 12) (
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	³ Ind	icators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F2	21) (MLR	A 127, 147	') un	less disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:								



Photograph Direction West

Comments:	

Project/Site: MVP	City/Count	_{v:} Roanoke	Sampling Date: 04/08/2016
Applicant/Owner: MVP		State: \	/A Sampling Point: W-AB6-PSS
Investigator(s): J. Hart, A. Larson, T. Wo	ods Section T		
Landform (hillslope, terrace, etc.): Basin (Fi			cave Slope (%): 0
Subregion (LRR or MLRA): LRR N			
Soil Map Unit Name: 16B - Edneyville fine		_	
Are climatic / hydrologic conditions on the site			_
Are Vegetation, Soil, or Hydrole	ogy significantly disturbed?	Are "Normal Circumsta	ances" present? Yes No
Are Vegetation, Soil, or Hydrole	ogy naturally problematic?	(If needed, explain any	answers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampli	ng point locations, trar	nsects, important features, etc.
Hydrophytic Vegetation Present? Yes	No		
	No.	he Sampled Area	•
	No wit	hin a Wetland? Yes	No
Remarks: Cowardin Code: PSS		Water Type: RPWW[
	·	* *	
Wetland is in low-lying area where pr	ecipitation has ponded for e	extended periods of time	and groundwater is daylighting
HYDROLOGY			
Wetland Hydrology Indicators:		Secondar	ry Indicators (minimum of two required)
Primary Indicators (minimum of one is require	d; check all that apply)	Surfa	ace Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Spars	sely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C	1) Drain	nage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres or	Living Roots (C3) Moss	Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iron	n (C4) Dry-S	Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in	Tilled Soils (C6) Cray	fish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Satur	ration Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remark	s) Stunt	ted or Stressed Plants (D1)
Iron Deposits (B5)		Geor	morphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shall	ow Aquitard (D3)
✓ Water-Stained Leaves (B9)			otopographic Relief (D4)
Aquatic Fauna (B13)		FAC-	Neutral Test (D5)
Field Observations:			
_	o Depth (inches):	_	
	o Depth (inches): 11	_	_
Saturation Present? Yes Ves N (includes capillary fringe)	o Depth (inches): 8	Wetland Hydrology	Present? Yes V No
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previou	s inspections), if available:	
Remarks:			

Sampling Point: W-AB6-PSS

201	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1. Acer rubrum	15	✓	FAC	That Are OBL, FACW, or FAC: 4 (A)
2				
				Total Number of Dominant Species Across All Strata: 5 (B)
3				Species Across All Strata:5 (B)
4		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 80 (A/B)
6				
7				Prevalence Index worksheet:
· ·	15	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 7.5				OBL species x 1 =
	20% 01	total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')	4-			
1. Acer rubrum	15		FAC	FAC species x 3 =
2. Rosa palustris	5		OBL	FACU species x 4 =
3			·	UPL species x 5 =
				Column Totals: (A) (B)
4				(b)
5				Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	er	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 10	20% of	total cover:	4	
Herb Stratum (Plot size: 5'				data in Remarks or on a separate sheet)
1. Poa trivialis	15	/	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Fragaria virginiana	5		FACU	
				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation offata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11	20	-		Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover:10	20% of	total cover:	4	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:15')				height.
1.				
2				
3		-		
4				Hydrophytic
5				Vegetation
	^	= Total Cov	er	Present? Yes V No No
50% of total cover: 0		total cover:	_	
		total cover.		
Remarks: (Include photo numbers here or on a separate s				
Remaining cover in herb stratum is bare ground	and leaf	litter		

Sampling Point: W-AB6-PSS

Profile Desc	ription: (Describe to	o the depth	needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redox	K Features	3				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-5.5	10YR 5/2	70	10YR 5/6	30	С	M	SCL		
5.5-20	10YR 6/1	75	10YR 6/6	35	С	M	L		
						· 		-	
			_			· 		-	
¹ Type: C=Ce	oncentration, D=Deple	etion, RM=R	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: Pl	L=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils	3.
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)	
Histic Ep	oipedon (A2)		Polyvalue Bel	low Surfac	ce (S8) (N	/ILRA 147,	148) C	oast Prairie Redox (A16)	
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye		F2)		P	iedmont Floodplain Soils (F19)	
	d Layers (A5)		Depleted Mat		(2)		.,	(MLRA 136, 147)	
	ick (A10) (LRR N) d Below Dark Surface	(/11)	Redox Dark S Depleted Dar	,	,			ery Shallow Dark Surface (TF12) hther (Explain in Remarks)	
	ark Surface (A12)	(A11)	Redox Depre				0	ther (Explain in Kemarks)	
	lucky Mineral (S1) (L l	RR N.	Iron-Mangane			LRR N.			
	\ 147, 148)	,	MLRA 136			,			
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	86, 122)	³ Indi	icators of hydrophytic vegetation an	d
Sandy R	Redox (S5)		Piedmont Flo				8) we	tland hydrology must be present,	
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	') unl	less disturbed or problematic.	
Restrictive I	Layer (if observed):								
Type:			<u>—</u>						
Depth (in	ches):		<u>—</u>				Hydric Soil	Present? Yes No	
Remarks:							1		



Photograph Direction NNE

Comments:	
• • • • • • • • • • • • • • • • • • • •	

Project/Site: MVP	City/County: Roanoke	Sampling Date: 04/08/2016
Applicant/Owner: MVP		State: VA Sampling Point: W-AB6-UP
Investigator(s): J. Hart, A. Larson, T. Woods		
Landform (hillslope, terrace, etc.): Terrace		
Subregion (LRR or MLRA): LRR N Lat		
Soil Map Unit Name: 16B - Edneyville fine sandy		
Are climatic / hydrologic conditions on the site typical fr		
Are Vegetation, Soil, or Hydrology		
Are Vegetation, Soil, or Hydrology		
SUMMARY OF FINDINGS – Attach site n	nap snowing sampling point locati	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	
Hydric Soil Present? Yes	_ No within a Wetland?	Yes No
Wetland Hydrology Present? Yes	No	
Remarks: Cowardin Code: UPLAND	HGM: Water Type:	
Upland plot occurs on slightly higher terrac AB6	e above wetland dominated by uplan	d vegetation. Paired plot with both W-
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
	_ Depth (inches):	
	_ Depth (inches):	
Saturation Present? Yes No No	_ Depth (inches): Wetland	Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if av	ailable:
Remarks:		
No hydrology		
,		

			Absolute	Dominant	Indicator	Dominance Test worksheet:		
ree Stratum (Plot size: _ Pinus strobus	30'			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
						Total Number of Dominant Species Across All Strata:	3	(B)
						Percent of Dominant Species	0	. ,
						That Are OBL, FACW, or FAC:		(A/B
						Prevalence Index worksheet:	Multiply by:	
				= Total Cov		OBL species x		
	4.51	otal cover: <u>32</u>	<u>.5</u> 20% of	total cover:	13			
Sapling/Shrub Stratum (F Prunus virginiana	Plot size: 15')	20	~	FACU	FACW species x x FAC species x		
<u>_</u>						FACU species x		
3						UPL species x		
·						Column Totals: (A		
i						Prevalence Index = B/A =		_
)						Hydrophytic Vegetation Indica	tors:	
7						1 - Rapid Test for Hydrophyt	ic Vegetation	
3						2 - Dominance Test is >50%	•	
)			20			3 - Prevalence Index is ≤3.0	1	
	E00/ of to	otal cover: 10		= Total Cov		4 - Morphological Adaptation	ns¹ (Provide sup	oporting
	- 1	otal cover:	20% 01	total cover.		data in Remarks or on a	canarata chaat	١
lark Ctratum (Dist size.		\				data iii Nomarks or on a s	scparate sheet	,
		_)	5		F <u>ACU</u>	Problematic Hydrophytic Ve		
Taraxacum officinale					F <u>ACU</u>	Problematic Hydrophytic Ve	getation ¹ (Expla	ain)
Taraxacum officinale							getation ¹ (Expla	ain)
Taraxacum officinale 2. 3.			- - -			Problematic Hydrophytic Veg	getation ¹ (Explain and hydrology problematic.	ain)
Taraxacum officinale 2. 3.			- - -			Problematic Hydrophytic Veg 1 Indicators of hydric soil and wetl be present, unless disturbed or p Definitions of Four Vegetation	getation ¹ (Explanation) and hydrology problematic. Strata:	ain) must
Taraxacum officinale 2. 3. 4. 5.						Problematic Hydrophytic Veg 1 Indicators of hydric soil and wetl be present, unless disturbed or p Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6	must cm) o
Taraxacum officinale 2. 3. 4. 5.						Problematic Hydrophytic Veg 1 Indicators of hydric soil and wetl be present, unless disturbed or p Definitions of Four Vegetation Tree – Woody plants, excluding	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6	must cm) o
Taraxacum officinale Taraxacum officinale Taraxacum officinale						Problematic Hydrophytic Veg 1 Indicators of hydric soil and weth be present, unless disturbed or properties. Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast height height.	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard	must ccm) o
Taraxacum officinale Taraxacum officinale Taraxacum officinale						Problematic Hydrophytic Veg 1 Indicators of hydric soil and wett be present, unless disturbed or p Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines	must cm) o
Taraxacum officinale 2. 3. 4. 5. 6. 7. 9. 10.						Problematic Hydrophytic Veg 1 Indicators of hydric soil and wett be present, unless disturbed or p Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants,	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines	must cm) o
Taraxacum officinale 2. 3. 4. 5. 6. 7. 9. 10.						Problematic Hydrophytic Veg 1 Indicators of hydric soil and wetl be present, unless disturbed or p Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall. Herb – All herbaceous (non-woo	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines or equal to 3.26 dy) plants, regard	must ccm) of lless of s, less 3 ft (1
Taraxacum officinale	50% of to			= Total Cov		Problematic Hydrophytic Vegetation Indicators of hydric soil and wetle be present, unless disturbed or properties. Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall.	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines or equal to 3.28 dy) plants, regard an 3.28 ft tall.	must cm) o lless of s, less 8 ft (1
Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale	50% of to	otal cover:2.		= Total Cov		Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and weth be present, unless disturbed or properties. Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall. Herb – All herbaceous (non-woo of size, and woody plants less the	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines or equal to 3.28 dy) plants, regard an 3.28 ft tall.	must cm) of lless of s, less ft (1
Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale	50% of to	otal cover:		= Total Cov		Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and weth be present, unless disturbed or properties. Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall. Herb – All herbaceous (non-woo of size, and woody plants less the Woody vine – All woody vines g	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines or equal to 3.28 dy) plants, regard an 3.28 ft tall.	must cm) or lless of
Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale	50% of to	otal cover:	5 5	= Total Cov		Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and weth be present, unless disturbed or properties. Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall. Herb – All herbaceous (non-woo of size, and woody plants less the Woody vine – All woody vines g	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines or equal to 3.28 dy) plants, regard an 3.28 ft tall.	must cm) or lless of
Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale	50% of to	otal cover:2.	5 20% of	= Total Cov total cover:		Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and weth be present, unless disturbed or properties. Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall. Herb – All herbaceous (non-woo of size, and woody plants less the Woody vine – All woody vines g	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines or equal to 3.28 dy) plants, regard an 3.28 ft tall.	must cm) or lless of
Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale	50% of to	otal cover:2.	5 20% of	= Total Cov total cover:		Problematic Hydrophytic Veg 1 Indicators of hydric soil and weth be present, unless disturbed or properties. Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall. Herb – All herbaceous (non-woo of size, and woody plants less the Woody vine – All woody vines gheight. Hydrophytic	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines or equal to 3.28 dy) plants, regard an 3.28 ft tall.	must cm) or lless of
Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale Taraxacum officinale	50% of to	otal cover:2.	5 5	= Total Cov total cover:	er 1	Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and weth be present, unless disturbed or properties. Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall. Herb – All herbaceous (non-woo of size, and woody plants less the Woody vine – All woody vines gheight. Hydrophytic Vegetation	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines or equal to 3.28 dy) plants, regard an 3.28 ft tall. reater than 3.26	must cm) or lless of
5	50% of to	otal cover:2.	5 20% of	= Total Cov total cover:	erer	Problematic Hydrophytic Veg 1 Indicators of hydric soil and weth be present, unless disturbed or properties. Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall. Herb – All herbaceous (non-woo of size, and woody plants less the Woody vine – All woody vines gheight. Hydrophytic	getation ¹ (Explain and hydrology problematic. Strata: vines, 3 in. (7.6 t (DBH), regard excluding vines or equal to 3.28 dy) plants, regard an 3.28 ft tall.	must cm) or lless of s, less ft (1

	ription: (Describe t	to the depth			ator or confirm	n the absence	of indicato	rs.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features % Tyr	pe ¹ Loc ²	Texture		Remark	S
0-9.5	10YR 4/3	100				Loam			-
9.5-20	7.5YR 5/6	95	10YR 5/8	5 D	M	SCL	-		
9.5-20	7.310 3/0	95	1010 3/0	<u> </u>	IVI	SCL			
1- 0.0						21			
Hydric Soil I	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	i=Masked San	d Grains.	² Location: PL			ıx. Hydric Soils³:
•			David Overface	(07)					-
Histosol	(A1) pipedon (A2)		Dark Surface	(S7) low Surface (S	Q) /MI DA 447			A10) (MLRA	
HISTIC Ep				rface (S9) (ML I	, .	, 1 40) C	oast Prairie (MLRA 14)	Redox (A1	0)
	n Sulfide (A4)		Loamy Gleye		NA 147, 140)	Di		oodplain Soi	le (F10)
	d Layers (A5)		Depleted Mat	, ,		<u> </u>	(MLRA 13		13 (1 13)
	ick (A10) (LRR N)		Redox Dark S			Ve		/ Dark Surfa	ice (TF12)
	d Below Dark Surface	e (A11)		k Surface (F7)				in in Remarl	
	ark Surface (A12)		Redox Depre	ssions (F8)					
	lucky Mineral (S1) (L	.RR N,	Iron-Mangane	ese Masses (F	12) (LRR N,				
	A 147, 148)		MLRA 130	•		2			
	Gleyed Matrix (S4)			ce (F13) (MLR					egetation and
	tedox (S5)			odplain Soils (F				logy must be	
	Matrix (S6)		Red Parent N	Material (F21) (I	MLRA 127, 14	7) unl	ess disturb	ed or proble	ematic.
	_ayer (if observed):								
Type:			_						
	ches):		_			Hydric Soil	Present?	Yes	No
Remarks:									